

**S. B. WOMEN'S (AUTO.) COLLEGE, CUTTACK**  
**ACADEMIC CALENDAR FOR THE SESSION 2022 - 2023**

Sl. No.	Academic Activity	Date
1	Admission Process for Undergraduate and Post Graduate Program	UG - 08.09.22 to 19.12.22 PG - 17.9.22 to 29.11.22 B.Ed-14.11.22 to 25.01.23
2	Reopening of College after summer vacation of 2021-22	17.06.22
3	Commencement of classes for Odd semester students in off-line / online/ blended mode.	U.G. (1st Sem.) - 17.10.2022 U.G. (3rd Sem.) - 10.09.2022 U.G. (5th Sem.) - 05.09.2022 P.G. (1st Sem.) - 17.10.2022 P.G. (3rd Sem.) - 13.09.2022 B.Ed (1st year)-16.11.2023
4	Conduct of Mid Semester (Odd)	U.G. (1st Sem.) - 05.12.2022 U.G. (3rd Sem.) - 07.11.2022 U.G. (5th Sem.) -25.10.2022 P.G. (1st Sem.) - 07.11.2022 P.G. (3rd Sem.) - 25.10.2022
5	Conduct of End Semester (Odd)	U.G. (1st Sem.) - 07.02.2023 U.G. (3rd Sem.) - 17.01.2023 U.G. (5th Sem.) - 19.12.2022 P.G. (1st Sem.) - 18.01.2023 P.G. (3rd Sem.) - 20.12.2022 B.Ed (1st Year) - 02.08.2023
6	Commencement of classes for even semester	U.G. (2nd Sem.) - 01.03.2023 U.G. (4th Sem.) - 27.01.2023 U.G. (6th Sem.) - 18.01.2023 P.G. (2nd Sem.) - 11.03.2023 P.G. (4th Sem.) - 16.01.2023
7	Conduct of Mid Semester for even semester	U.G. (2nd Sem.) -03.03.2023 U.G. (4th Sem.) - 14.03.2023 U.G. (6th Sem.) - 20.02.2023 P.G. (2nd Sem.) - 14.03.2023 P.G. (4th Sem.) - 20.02.2023
8	Conduct of Semester for even semester	U.G. (2nd Sem.) - 26.06.2023 U.G. (4th Sem.) - 03.7.2023 U.G. (6th Sem.) - 01.05.2023 P.G. (2nd Sem.) - 04.07.02023 P.G. (4th Sem.) - 02.05.2023 B.Ed (2nd Year) - 20.07.2023
9	Parent-Teachers Meet +3 1st Yr.,PG 1st year,B.Ed 1st year +3 2nd Yr. +3 3rd Yr.,PG 2nd yr,B.Ed 2nd yr	29.04.2023 23.12.2022 23.12.2022

10	College Students' Union Election	Election to students' & other society will be held on the day to be fixed by the govt.
11	Puja Vacation	01.10.2022-08.10.2022
12	X-mass Holiday	25.12.2022
13	Annual Sports/Cultural Week to conduct all competitions & functions	21.12.2022/ 12.12.2022-17.12.2022
14	Filling up of forms for University Exam	U.G. (1st Sem.) - 05.12.2022 U.G. (3rd Sem.) - 14.11.2022 U.G. (5th Sem.) - 02.11.2022 P.G. (1st Sem.) - 14.11.2022 P.G. (3rd Sem.) - 02.11.2022 U.G. (2nd Sem.) - 03.03.2023 U.G. (4th Sem.) - 14.04.2023 U.G. (6th Sem.) - 20.02.2023 P.G. (2nd Sem.) - 14.03.2023 P.G. (4th Sem.) - 20.02.2023 B.Ed 1st Annual- 03.07.2023 B.Ed 2nd Annual -19.06.2023
15	Alumni Meet	24.12.2022
16	Publication of Result: +3/PG 1st,2nd,3rd,4th,5th,6th Sem Exam	within 45 days from last examination dt of the concerned semester exam.
17	Total No. of Holidays	72 days, Excluding Sudays
18	Total no. of Reserve Holidays	Maximum 02 days
19	Total No. of Teaching Days	Minimum 180 days
20	Summer Vacation	01.06.2022 to 16.06.2022
21	Commencement of Next Academic Session for the Batch	2023-24

  
20/9/2022  
Academic Bursar


  
20/09/22  
Principal

**S. B. WOMEN'S (AUTO.) COLLEGE, CUTTACK**  
**ACADEMIC CALENDAR FOR THE SESSION 2021 - 2022**

Sl. No.	Academic Activity	Date
1	Admission Process for Undergraduate and Post Graduate Program	UG - 13.09.2021 to 23.12.2021 PG - 22.10.2021 to 07.12.2021
2	Reopening of College after summer vacation of 2020-21	01.06.2021
3	Commencement of classes for Odd semester students in off-line / online/ blended mode.	U.G. (1st Sem.) - 01.11.2021 U.G. (3rd Sem.) - 01.12.2021 U.G. (5th Sem.) - 04.10.2021 P.G. (1st Sem.) - 09.12.2021 P.G. (3rd Sem.) - 06.12.2021 M.Phil (1st Sem.) - 07.06.2021
4	Conduct of Mid Semester (Odd)	U.G. (1st Sem.) - 10.01.2022 U.G. (3rd Sem.) - 07.02.2022 U.G. (5th Sem.) - 14.12.2021 P.G. (1st Sem.) - 10.01.2022 P.G. (3rd Sem.) - 07.02.2022
5	Conduct of End Semester (Odd)	U.G. (1st Sem.) - 11.04.2022 U.G. (3rd Sem.) - 21.03.2022 U.G. (5th Sem.) - 23.02.2022 P.G. (1st Sem.) - 02.04.2022 P.G. (3rd Sem.) - 21.03.2022 M.Phil (1st Sem.) - 07.10.2021 B.Ed (1st Year) - 07.09.2022
6	Commencement of classes for even semester	U.G. (2nd Sem.) - 07.01.2022 U.G. (4th Sem.) - 13.04.2022 U.G. (6th Sem.) - 04.10.2021 P.G. (2nd Sem.) - 18.04.2022 P.G. (4th Sem.) - 02.04.2022 M.Phil (2nd Sem.) - 11.10.2021
7	Conduct of Mid Semester for even semester	U.G. (2nd Sem.) - 21.04.2022 U.G. (4th Sem.) - 25.06.2022 U.G. (6th Sem.) - 18.05.2022 P.G. (2nd Sem.) - 20.06.2022 P.G. (4th Sem.) - 18.05.2022
8	Conduct of Semester for even semester	U.G. (2nd Sem.) - 03.07.2022 U.G. (4th Sem.) - 16.08.2022 U.G. (6th Sem.) - 06.07.2022 P.G. (2nd Sem.) - 17.08.2022 P.G. (4th Sem.) - 05.07.2022 M.Phil (2nd Sem.) - 07.03.2022 B.Ed (2nd Year) - 16.08.2022



9	Parent-Teachers Meet +3 1st Yr. +3 2nd Yr. +3 3rd Yr.	9.12.2021 16.12.2021 23.12.2021
10	College Students' Union Election	Election to students' & other society will be held on the day to be fixed by the govt.
11	Puja Vacation	12.10.2021- 15.10.2021
12		25.12.2021
	X-mass Holiday	
13	Annual Sports/Cultural Week to conduct all competitions & functions	19.02.2021
14	Filling up of forms for University Exam	U.G. (1st Sem.) - 15.02.2022 U.G. (3rd Sem.) - 10.02.2022 U.G. (5th Sem.) - 04.01.2022 P.G. (1st Sem.) - 15.02.2022 P.G. (3rd Sem.) - 10.02.2022 M.Phil (1st Sem.) - 27.09.2021 U.G. (2nd Sem.) - 07.01.2022 U.G. (4th Sem.) - 04.07.2022 U.G. (6th Sem.) - 17.05.2022 P.G. (2nd Sem.) - 10.01.2022 P.G. (4th Sem.) - 17.05.2022 B.Ed 1st Annual- 25.07.2022 B.Ed 2nd Annual -18.06.2022
15	Alumni Meet	07.01.2022
16	Publication of Result: +3/PG 1st,2nd,3rd,4th,5th,6th Sem Exam	within 45 days from last examination dt of the concerned semester exam.
17	Total No. of Holidays	72 days, Excluding Sundays
18	Total no. of Reserve Holidays	Maximum 02 days
19	Total No. of Teaching Days	Minimum 180 days
20	Summer Vacation	05.05.2021 to 31.05.2021
21	Commencement of Next Academic Session for the Batch	2022 - 2023

  
30/9/2022  
Academic Bursar

  
Principal

Principal  
S.B. Womens (Auto) College  
Cuttrack

(For 2020-21 Pre-final Year UG Batch)

**UG Academic Calendar**

Semester Examination System					Annual Examination System	
Academic Schedule	Academic Session 2020-21		Academic Session 2021-22		Academic Session 2020-21	Academic Session 2021-22
	3rd Semester	4th Semester	5th Semester	6th Semester		
3-Years UG Course					2nd Year	Final Year
4-Years UG Course	5th Semester	6th Semester	7th Semester	8th Semester		
Conduct of Physical Classes	10.02.2021 to 17.04.2021	03.05.2021 to 31.08.2021	20.09.2021 to 20.01.2022	07.02.2022 to 07.05.2022	10.02.2021 to 14.08.2021	20.09.2021 to 07.05.2022
Examination	19.04.2021 to 30.04.2021	01.09.2021 to 15.09.2021	21.01.2022 to 04.02.2022	15.06.2022 to 30.06.2022	16.08.2021 to 15.09.2021	15.06.2022 to 30.06.2022
Result Publication	31.05.2021	16.10.2021	28.02.2022	15.07.2022	16.10.2021	15.07.2022

(For 2020-21 Year PG Admission Batch)

**PG Academic Calendar**

Academic Schedule	Academic Session 2020-21		Academic Session 2021-22	
	1st Semester	2nd Semester	3rd Semester	4th Semester
Conduct of Physical Classes	10.02.2021 to 05.06.2021	21.06.2021 to 30.09.2021	18.10.2021 to 31.01.2022	16.02.2022 to 07.05.2022
Examination	07.06.2021 to 19.06.2021	01.10.2021 to 11.10.2021	01.02.2022 to 15.02.2022	15.06.2022 to 30.06.2022
Result Publication	20.07.2021	10.11.2021	15.03.2022	15.07.2022

**SHAILABALA WOMEN'S (AUTONOMOUS) COLLEGE, CUTTACK**

**Academic Calendar-2019-2020**

<b>Sl. No</b>	<b>Subject</b>	<b>Time Line</b>
i.	Reopening of College after summer Vacation of 2019-20	18.06.2019
ii.	Commencement of classes +3 2 <sup>nd</sup> Year +3 3 <sup>rd</sup> Year P.G. 2 <sup>nd</sup> Year +3 1 <sup>st</sup> Year P.G. 1 <sup>st</sup> Year	18.06.2019 -do- -do- 08.08.2019 01.08.2019
iii.	Parents-Teachers Meet  +3 1 <sup>st</sup> Year +3 2 <sup>nd</sup> Year +3 3 <sup>rd</sup> Year	  07.09.2019 14.09.2019 21.09.2019
iv.	College Students' Union Election	Election to Students' Union and other societies will be held on one day for all colleges and Universities in a single date to be fixed by the Govt.
v.	Puja Vacation	03.10.2019 to 13.10.2019
vi.	Mid Semester Examination  Odd Semesters (1 <sup>st</sup> , 3 <sup>rd</sup> , 5 <sup>th</sup> ) Even Semesters (2 <sup>nd</sup> , 4 <sup>th</sup> , 6 <sup>th</sup> ) End Semester Examination Odd semesters (1 <sup>st</sup> , 3 <sup>rd</sup> , 5 <sup>th</sup> ) Even Semesters (2 <sup>nd</sup> , 4 <sup>th</sup> , 6 <sup>th</sup> )	  Last week of September 1 <sup>st</sup> week of February  Last week of November-2019  Last week of April- 2020
vii.	X- Mass Holidays	25 <sup>th</sup> December-2019
viii.	Annual sports /Cultural meet to conduct all competitions and functions	02.01.2020- 15-01-2020

ix.	Filling up- of forms for University Exams Odd semesters( 1 <sup>st</sup> , 3 <sup>rd</sup> , 5 <sup>th</sup> )  Even Semesters (2 <sup>nd</sup> , 4 <sup>th</sup> , 6 <sup>th</sup> )	Last week of October-2019  Last week of February-2020
x.	Alumini Meet	1 <sup>st</sup> week of January, 2020
xi.	Publication of results +3/PG 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> Semester exams	Within 45 days from last theory exam of concerned semester exam subject to publication of last semester exam in 2 <sup>nd</sup> week of May, 2020
xii.	Total no. of Holidays	72 days excluding Sundays
xiii.	Total no. of reserved holidays	Max. 2days
xiv.	Total number of teaching days	Minimum 180 days
xv.	Summer vacation	9 <sup>th</sup> May-2020 to 16 <sup>th</sup> June 2020

**(N.B. The above timeline maybe modified by the Govt. As and when required)**





**SHAILABALA WOMEN'S (AUTONOMOUS) COLLEGE, CUTTACK**

**Academic Calendar-2018-2019**

<b>Sl. No</b>	<b>Subject</b>	<b>Time Line</b>
i.	Reopening of College after summer Vacation of 2018-19	18.06.2018
ii.	Commencement of classes +3 2 <sup>nd</sup> Year +3 3 <sup>rd</sup> Year P.G. 2 <sup>nd</sup> Year +3 1 <sup>st</sup> Year P.G. 1 <sup>st</sup> Year	18.06.2018 -do- -do- 08.08.2018 01.08.2018
iii.	Parents-Teachers Meet  +3 1 <sup>st</sup> Year +3 2 <sup>nd</sup> Year +3 3 <sup>rd</sup> Year	  08.09.2018 14.09.2019 20.09.2019
iv.	College Students' Union Election	Election to Students' Union and other societies will be held on one day for all colleges and Universities in a single date to be fixed by the Govt.
v.	Puja Vacation	15.10.2018 to 24.10.2018
vi.	Mid Semester Examination  Odd Semesters (1 <sup>st</sup> , 3 <sup>rd</sup> , 5 <sup>th</sup> ) Even Semesters (2 <sup>nd</sup> , 4 <sup>th</sup> , 6 <sup>th</sup> ) End Semester Examination Odd semesters (1 <sup>st</sup> , 3 <sup>rd</sup> , 5 <sup>th</sup> ) Even Semesters (2 <sup>nd</sup> , 4 <sup>th</sup> , 6 <sup>th</sup> )	  Last week of September 1 <sup>st</sup> week of February  Last week of November-2018  Last week of April- 2019
vii.	X- Mass Holidays	25 <sup>th</sup> December-2019
viii.	Annual sports /Cultural meet to conduct all competitions and functions	02.01.2018- 15-01-2019

ix.	Filling up- of forms for University Exams Odd semesters( 1 <sup>st</sup> , 3 <sup>rd</sup> , 5 <sup>th</sup> )  Even Semesters (2 <sup>nd</sup> , 4 <sup>th</sup> , 6 <sup>th</sup> )	Last week of October-2018  Last week of February-2019
x.	Alumini Meet	1 <sup>st</sup> week of January, 2019
xi.	Publication of results +3/PG 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> Semester exams	Within 45 days from last theory exam of concerned semester exam subject to publication of last semester exam in 2 <sup>nd</sup> week of May, 2019
xii.	Total no. of Holidays	72 days excluding Sundays
xiii.	Total no. of reserved holidays	Max. 2days
xiv.	Total number of teaching days	Minimum 180 days
xv.	Summer vacation	7 <sup>th</sup> May-2019 to 17 <sup>th</sup> June 2019

**(N.B. The above timeline maybe modified by the Govt. As and when required)**



# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 1<sup>ST</sup> SEMESTER

Department	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	I	I	I	I	I
<b>Course Name</b>	CC-I Non-Chordates I: Protista to Pseudocoelomates	CC-I Non-Chordates I: Protista to Pseudocoelomates	CC-I Non-Chordates I: Protista to Pseudocoelomates	CC-I Non-Chordates I: Protista to Pseudocoelomates	CC-I Non-Chordates I: Protista to Pseudocoelomates
<b>Units Assigned</b>	IV(Nemathelminthes)	III(Platyhelminthes)	12	II(Cnidaria & Ctenophora)	I(Protista, Parazoa, Metazoa and Porifera)
<b>No of Weeks</b>	12	12	12	12	12
<b>No of Periods/week</b>	03 Theory	02 Theory+01 Practical	02 Theory+01 Practical	02 Theory + 01 Practical	03 Theory
<b>Teacher's Name</b>	Dr. Priti Pragyay Ray	Smt. Sushree Shibance Dash	Smt. Sushree Shibance Dash	Sri Suresh Kumar Nayak	Smt. Ananda Rukmini

Total No. of periods: 120 (Theory) + 24 (Lab) = 144

Total No. of Core Papers in Semester-I = 02 (CC-I & CC-II)

Total No. of Theory Classes Available for CC-I = 120/2= 60

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/GD)	Source of Teaching Materials	Corresponding COs
1	I	General characteristics and Classification up to classes of Protista	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
2		Study of Euglena	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
3		Amoeba	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
4		Life cycle and pathogenicity of <i>Plasmodium vivax</i>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
5		Life cycle and pathogenicity <i>Entamoeba histolytica</i>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
6		Reproduction in Protista	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
7		Locomotion in Protista	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6

8		Porifera:General characteristics and Classification up to classes	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
9		Porifera:General characteristics and Classification up to classes	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
10		Canal system and spicules in sponges.	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
11		Canal system and spicules in sponges.	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
12		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
13		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
14		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
15		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
16	II	General characteristics of Cnidaria	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
17		Classification up to classes of Cnidaria	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
18		Metagenesis in <i>Obelia</i>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
19		Polymorphism in Cnidaria	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
20		Polymorphism in Cnidaria	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
21		Corals and coral reefs	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
22		General characteristics and Evolutionary significance of Ctenophora	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
23		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
24		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
25		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
26		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6
27		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, PPTs	1.1- 1.6
28	III	General characteristics and Classification up to	LM/ICT/IM/GD	Text books, PPTs	1.1- 1.6



	classes				
29	Classification up to classes	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
30	Life cycle and pathogenicity of <i>Fasciola hepatica</i>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
31	Life cycle and pathogenicity of <i>Fasciola hepatica</i>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
32	Life cycle and pathogenicity of <i>Taenia solium</i>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
33	Life cycle and pathogenicity of <i>Taenia solium</i>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
34	<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
35	<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
36	<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
37	<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
38	<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
39	<b>PRESENTATION BY FAST LEARNERS FOR PEER LEARNING</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
40	<b>PRESENTATION BY FAST LEARNERS FOR PEER LEARNING</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
41	<b>PRESENTATION BY FAST LEARNERS FOR PEER LEARNING</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
42	IV General characteristics and Classification up to classes of Platyhelminthes	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
43	General characteristics and Classification up to classes of Platyhelminthes	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
44	Life cycle and pathogenicity of <i>Ascaris lumbricoides</i>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1- 1.6	
45	Life cycle and pathogenicity of <i>Ascaris lumbricoides</i>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1-1.6	
46	Life cycle and pathogenicity of <i>Ascaris lumbricoides</i>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1-1.6	
47	Life cycle and pathogenicity of <i>Wuchereria</i>	LM/ICT/IM/GD	Text books, Reference books, PPTs	1.1-1.6	

		<i>bancrofti</i>			PPTs	
48		Life cycle and pathogenicity of <i>Wuchereria bancrofti</i>	LM/ICT/IM/GD		Text books, Reference books, PPTs	1.1-1.6
49,50		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD		Text books, Reference books, PPTs	1.1-1.6
51,52		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD		Text books, PPTs	1.1-1.6
53,54,55		<b>PRESENTATION BY FAST LEARNERS FOR PEER LEARNING</b>	LM/ICT/IM/GD		Text books, Reference books, PPTs	1.1-1.6
56, 57,58,59		<b>QUESTION ANSWER DISCUSSION</b>	LM/ICT/IM/GD		Text books, Reference books, PPTs	1.1-1.6
60		<b>TEST</b>				
<b>Department</b>		ZOOLOGY			ZOOLOGY	
<b>Semester</b>		I			I	
<b>Course Name</b>		CC-I Practical Non-Chordates I: Protista to Pseudocoelomates			CC-I Practical Non-Chordates I: Protista to Pseudocoelomates	
<b>No of Weeks</b>		12			12	
<b>No of Periods/week</b>		01 Practical			01 Practical	
<b>Teacher's Name</b>		Sri Saresh Kumar Nayak			Smt. Sushree Shibance Dash	
<b>Periods Available for CC-I Practical</b>		6			6	
<b>Period</b>	<b>CC-I Practical</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding Cos</b>	
1		Study of whole mount of <i>Euglena</i> , <i>Amoeba</i> and <i>Paramecium</i> , Binary fission and Conjugation in <i>Paramecium</i> .	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	1.1-1.6	
2		Examination of pond water collected from different places for diversity in protista.	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	1.1-1.6	
3		Study of <i>Sycon</i> (T.S. and L.S.), <i>Hyalonema</i> , <i>Euplectella</i> , <i>Spongilla</i> .	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	1.1-1.6	
4		Study of <i>Obelia</i> , <i>Physalia</i> , <i>Millepora</i> , <i>Aurelia</i> , <i>Tubipora</i> , <i>Corallium</i>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	1.1-1.6	
5		<i>Alcyonium</i> , <i>Gorgonia</i> , <i>Metridium</i> , <i>Pennatulata</i> , <i>Fungia</i> , <i>Meandrina</i> , <i>Madrepora</i> .	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	1.1-1.6	

				specimen, Microscopic Slides	1.1-1.6
6	Revision		DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	1.1-1.6
7	One specimen/slide of any ctenophore. Study of adult <i>Fasciola hepatica</i> and its life cycles (Slides/microphotographs).		DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	1.1-1.6
8	<i>Taenia solium</i> and their life cycles (Slides/microphotographs).		DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	1.1-1.6
9	Study of adult <i>Ascaris lumbricoides</i> and its life stages (Slides/micro-photographs).		DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	1.1-1.6
10	To submit a Project Report on any related topic on life cycles/coral/ coral reefs.		DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	1.1-1.6
11	Revision		DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	1.1-1.6
12	Question answer discussion(Mock Viva-voce)		DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	1.1-1.6

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model), GD-Group Discussion, PL-Peer Learning

# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 1<sup>ST</sup> SEMESTER

Department	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	I	I	I	I	ZOOLOGY
<b>Course Name</b>	CC-II Principles of Ecology	CC-II Principles of Ecology	CC-II Principles of Ecology	CC-II Principles of Ecology	CC-II Principles of Ecology
<b>Units Assigned</b>	Unit 3: Community	Unit – 4: Biometry(2 <sup>nd</sup> half), Unit 2: Population	Unit – 4: Biometry(2 <sup>nd</sup> half), Unit 2: Population	Unit 1: Ecosystem and Applied Ecology	Unit – 4: Biometry(1 <sup>st</sup> half)
<b>No of Weeks</b>	12	12	12	12	12
<b>No of Periods/week</b>	03 Theory	02 Theory+01 Practical	02 Theory+01 Practical	02 Theory + 01 Practical	03 Theory
<b>Teacher's Name</b>	Dr. Priti Pragyana Ray	Smt. Sushree Shibancee Dash	Smt. Sushree Shibancee Dash	Sri Sareesh Kumar Nayak	Smt. Ananda Rukmini

Total No. of periods: 120 (Theory) + 24 (Lab) = 144

Total No. of Core Papers in Semester-I = 02 (CC-I & CC-II)

Total No. of Theory Classes Available for CC-II = 120/2 = 60

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM/GD)	Source of Teaching Materials	Corresponding Cos
<b>1</b>	<b>I</b>	Ecology: Autecology and synecology, Types of ecosystems with one example in detail	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>2</b>		Types of ecosystems with one example in detail	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>3</b>		Food chain: Detritus and grazing	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>4</b>		Food chains, Linear and Y-shaped food chains, Food web	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>5</b>		Energy flow through the ecosystem	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>6</b>		Ecological pyramids	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>7</b>		Nutrient and biogeochemical cycle with one	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	2.1-2.6

		example of Nitrogen cycle				
<b>8</b>		Laws of limiting factors, Study of physical factors- (Light, temperature)		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>9</b>		Study of physical factors- (Light, temperature)		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>10</b>		Ecology in Wildlife Conservation and Management		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>11</b>		<b>DOUBT CLEARING</b>		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>12</b>		<b>REMEDIAL CLASS/REVISION</b>		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>13</b>		<b>REMEDIAL CLASS/REVISION</b>		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>14</b>	<b>II</b>	Attributes of population: Density, natality, mortality		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>15</b>		Life tables, fecundity tables		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>16</b>		Survivorship curves		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>17</b>		Age ratio, sex ratio, dispersal and dispersion		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>18</b>		Exponential and logistic growth, equation and patterns,		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>19</b>		R and K strategies. Population regulation - density-dependent		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>20</b>		Population regulation – density-independent factors		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>21</b>		Population interactions		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>22</b>		Population interactions		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>23</b>		Gause's Principle with laboratory and field examples		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>24</b>		<b>DOUBT CLEARING</b>		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>25</b>		<b>REMEDIAL CLASS/REVISION</b>		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6
<b>26</b>		<b>REMEDIAL CLASS/REVISION</b>		LM/ICT/IM/DLM/GD	Text books, Reference books, PPTs	2.1-2.6



<b>27</b>	<b>III</b>	Community characteristics: species richness, dominance	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>28</b>		Community characteristics: species richness, dominance	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>29</b>		Diversity, abundance, vertical stratification	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>30</b>		Diversity, abundance, vertical stratification	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>31</b>		Ecotone and edge effect	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>32</b>		Ecological succession with one example	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>33</b>		Ecological succession with one example	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>34</b>		Theories pertaining to climax community	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>35</b>		Theories pertaining to climax community	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>36</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>37</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>38</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>39</b>	<b>IV</b>	Biological data, graphical representation of data	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>40</b>		Frequency polygon and histogram	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>41</b>		Sampling techniques	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>42</b>		Measures of central tendency: Mean	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>43</b>		Measures of central tendency: median	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>44</b>		Measures of central tendency: mode	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>45</b>		Measures of dispersion: range , quartile deviation	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6
<b>46</b>		Mean deviation	LM/ICT/IM/D/M/GD	Text books, Reference books, PPTs	2.1-2.6

47	Standard deviation	LM/ICT/IM/DLM/GD	PPTs	Text books, Reference books, PPTs	2.1-2.6
48	Hypothesis and hypothesis testing (Chi-square test)	LM/ICT/IM/DLM/GD	PPTs	Text books, Reference books, PPTs	2.1-2.6
49	Hypothesis and hypothesis testing ( t- test)	LM/ICT/IM/DLM/GD	PPTs	Text books, Reference books, PPTs	2.1-2.6
50	<b>DOUBT CLEARING</b>	LM/ICT/IM/DLM/GD	PPTs	Text books, Reference books, PPTs	2.1-2.6
51	<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DLM/GD	PPTs	Text books, Reference books, PPTs	2.1-2.6
52	<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DLM/GD	PPTs	Text books, Reference books, PPTs	2.1-2.6
53	<b>PRESENTATION BY FAST LEARNERS(PEER LEARNING)</b>	LM/ICT/IM/DLM/GD	PPTs	Text books, Reference books, PPTs	2.1-2.6
54	<b>PRESENTATION BY FAST LEARNERS(PEER LEARNING)</b>	LM/ICT/IM/DLM/GD	PPTs	Text books, Reference books, PPTs	2.1-2.6
55	<b>DOUBT CLEARING</b>	LM/ICT/IM/DLM/GD	PPTs	Text books, Reference books, PPTs	2.1-2.6
56	<b>DOUBT CLEARING</b>	LM/ICT/IM/DLM/GD	PPTs	Text books, Reference books, PPTs	2.1-2.6
57	<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DLM/GD	PPTs	Text books, Reference books, PPTs	2.1-2.6
58	<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DLM/GD	PPTs	Text books, Reference books, PPTs	2.1-2.6
59	<b>QUESTION ANSWER DISCUSSION</b>	LM/ICT/IM/DLM/GD	PPTs	Text books, Reference books, PPTs	2.1-2.6
60	<b>TEST</b>		PPTs	Text books, Reference books, PPTs	2.1-2.6
<b>Department</b>		ZOOLOGY			
<b>Semester</b>		I			
<b>Course Name</b>		CC-II Principles of Ecology			
<b>No of Weeks</b>		12			
<b>No of Periods/week</b>		01 Practical			
<b>Teacher's Name</b>		Smt. Sushree Shibanee Dash			
<b>Periods Available for CC-II Practical</b>		6			

Period	CC-II Practical	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding Cos
1		Study of life tables and plotting of survivorship curves of different types from the hypothetical/real data provided.	DM/LM/ICT/IM	Text books, Reference books, PPTs, Lab Manual	2.1-2.6
2		Determination of population density in a natural/hypothetical community by quadrat method and calculation of Shannon-Weiner diversity index for the same community	DM/LM/ICT/IM	Text books, Reference books, PPTs, Lab Manual	2.1-2.6
3		Study of an aquatic ecosystem: Phytoplankton and zooplankton collection, preservation and mounting	DM/LM/ICT/IM	Text books, Reference books, PPTs, Lab Manual	2.1-2.6
5		Measurement of temperature, turbidity/penetration of light	DM/LM/ICT/IM	Text books, Reference books, PPTs, Lab Manual	2.1-2.6
6		determination of Ph, Dissolved Oxygen content (Winkler's method)	DM/LM/ICT/IM	Text books, Reference books, PPTs, Lab Manual	2.1-2.6
7		BOD, COD, Free CO <sub>2</sub>	DM/LM/ICT/IM	Text books, Reference books, PPTs, Lab Manual	2.1-2.6
8		Hardness, TDS	DM/LM/ICT/IM	Text books, Reference books, PPTs, Lab Manual	2.1-2.6
9		Chi-square analysis using seeds/beads/Drosophila	DM/LM/ICT/IM	Text books, Reference books, PPTs, Lab Manual	2.1-2.6
10		Problems on standard deviation	DM/LM/ICT/IM	Text books, Reference books, PPTs, Lab Manual	2.1-2.6
11		Graphical representation of data (Frequency polygon and Histogram) Report on a visit to National Park/Biodiversity Park/Wild life sanctuary.	DM/LM/ICT/IM	Text books, Reference books, PPTs, Lab Manual	2.1-2.6
12		Revision	DM/LM/ICT/IM	Text books, Reference books, PPTs, Lab Manual	2.1-2.6
		Question answer discussion(Mock Viva-voce)			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model), GD-Group Discussion, PL-Peer Learning

# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 3<sup>RD</sup> SEMESTER

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	III	III	III	III
<b>Course Name</b>	Core Paper V: Diversity and distribution of Chordates	Core Paper V: Diversity and distribution of Chordates	Core Paper V: Diversity and distribution of Chordates	Core Paper V: Diversity and distribution of Chordates
<b>Units Assigned</b>	I	III	II	IV
<b>No of Weeks</b>	12	12	12	12
<b>No of Periods/week</b>	05Theory+01 Pratical	04 Theory+ 01 Practical	02 Theory	04 Theory + 01 Practical
<b>Teacher's Name</b>	Dr. Priti Pragyay Ray	Smt. Sushree Shibanee Dash	Sri Saresh Kumar Nayak	Smt. Ananda Rukmini

Total No. of periods: 180 (Theory) + 36 (Lab) = 216

Total No. of Core Papers in Semester-III = 03 (CC-V, CC-VI & CC-VII)

Total No. of Theory Classes Available for CC-V = 180/3= 60

<b>Period</b>	<b>Unit</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding Cos</b>
<b>1</b>	<b>I</b>	Protochordates and Origin of Chordates Protochordata;	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>2</b>		General characteristics of Hemichordata, Urochordata and Cephalochordata;	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>3</b>		General characteristics of Hemichordata, Urochordata and Cephalochordata;	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>4</b>		Study of larval forms in protochordates	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>5</b>		Study of larval forms in protochordates	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>6</b>		Retgressive metamorphosis in Urochordata.	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>7</b>		Retgressive metamorphosis in Urochordata.	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>8</b>		General characteristics and outline classification Chordata	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6

<b>9</b>		Dipleurula concept and the Echinoderm theory of origin of chordates.	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>10</b>		Dipleurula concept and the Echinoderm theory of origin of chordates.	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>11</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>12</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>13</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>14</b>		<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>15</b>		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>16</b>	<b>II</b>	General characteristics of Agnatha	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>17</b>		General characteristics and classification of cyclostomes up to class Chondrichthyes and Osteichthyes: classification up to order	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>18</b>		General characteristics and classification of cyclostomes up to class Chondrichthyes and Osteichthyes: classification up to order	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>19</b>		Accessory respiratory organs in pisces	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>20</b>		Parental care in fishes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>21</b>		Migration in fishes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>22</b>		Migration in fishes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>23</b>		Evolutionary significance of Dipnoi	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>24</b>		General characteristics and classification up to order in amphibian	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>25</b>		Parental care in Amphibia	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>26</b>		Amphibian: Origin of Tetrapoda (Evolution of terrestrial ectotherms)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>27</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6



					PPTs	
<b>28</b>		<b>REMEDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>29</b>		<b>REMDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>30</b>		<b>UNIT TEST</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>31</b>	<b>III</b>	General characteristics and classification up to order in reptiles		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>32</b>		General characteristics and classification up to order in reptiles		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>33</b>		Affinities of Sphenodon		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>34</b>		Poison apparatus and Biting mechanism in snakes		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>35</b>		Biting mechanism in snakes		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>36</b>		General characteristics and classification up to order in Aves		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>37</b>		General characteristics and classification up to order in Aves		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>38</b>		Archaeopteryx - a connecting link		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>39</b>		Flight adaptations in birds		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>40</b>		Migration in birds		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>41</b>		<b>DOUBT CLEARING</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>42</b>		<b>REMEDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>43</b>		<b>REMDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>44</b>		<b>CLASS PRESENTATION/PEER LEARNING</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>45</b>		<b>UNIT TEST</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
<b>46</b>	<b>IV</b>	General characters and classification up to order of mammals		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6

47	General characters and classification up to order of mammals	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
48	Affinities of Prototheria	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
49	Affinities of Prototheria	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
50	Adaptive radiation with reference to locomotory appendages	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
51	Adaptive radiation with reference to locomotory appendages, Zoogeographical realms	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
52	Zoogeographical realms	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
53	Theories pertaining to distribution of animals	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
54	Plate tectonic and Continental drift theory	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
55	Distribution of vertebrates in different realms	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
56	<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
57	<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
58	<b>REMIDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	5.1-5.6
59	<b>UNIT TEST</b>		Text books, Reference books, PPTs	5.1-5.6
60	<b>CLASS TEST</b>		Text books, Reference books, PPTs	5.1-5.6

Department	ZOOLOGY	ZOOLOGY	ZOOLOGY		
Semester	III	III	III		
Course Name	Core Paper V: Diversity and distribution of Chordates	Core Paper V: Diversity and distribution of Chordates	Core Paper V: Diversity and distribution of Chordates		
No of Weeks	12	12	12		
No of Periods/week	01 Practical	01 Practical	01 Practical		
Teacher's Name	Dr. Priti Pragyay Ray	Smt. Sushree Shibanee Dash	Smt. Ananda Rukmini		
Periods Available for CC-V Practical	4	4	4		
Period	CC-V Practical	Topics	Method of Teaching (LM/ICT/IM/DM/GD)	Source of Teaching Materials	Corresponding Cos
1		Protochordata: <i>Balanoglossus</i> , <i>Herdmania</i> , <i>Branchiostoma</i> , Colonial Urochordata, Sections of <i>Balanoglossus</i> through proboscis and branchio-genital regions	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	5.1-5.6
2		Sections of <i>Amphioxus</i> through pharyngeal, intestinal and caudal regions. Permanent slides of <i>Herdmania</i> spicules, Agnatha: <i>Petromyzon</i> and <i>Myxine</i> .	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	5.1-5.6
3		Fishes: <i>Scoliodon</i> , <i>Sphyrna</i> , <i>Pristis</i> , <i>Torpedo</i> , <i>Chimaera</i> , <i>Mystus</i> , <i>Heteropneustes</i> , <i>Labeo</i> , <i>Exocoetus</i> , <i>Echeneis</i> , <i>Anguilla</i> , <i>Hippocampus</i> , <i>Tetrodon</i> / <i>Diodon</i> , <i>Anabas</i> , <i>Flat fish</i>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	5.1-5.6
4		Reptilia: <i>Chelone</i> , <i>Trionyx</i> , <i>Hemidactylus</i> , <i>Varanus</i> , <i>Uromastix</i> , <i>Chamaeleon</i> , <i>Ophiosaurus</i> , <i>Draco</i> , <i>Bungarus</i> , <i>Vipera</i> , <i>Naja</i> , <i>Hydrophis</i> , <i>Zamenis</i> , <i>Crocodylus</i> ; Key for Identification of poisonous and non-poisonous snakes	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	5.1-5.6
5		Aves: Study of six common birds from different orders. Types of beaks and claws. Study of	DM/LM/ICT/IM/GD	Text books, Reference books,	5.1-5.6

		feathers			PPTs, Lab Manual	
6		Mammalia: <i>Sorex</i> , <i>Bat</i> (Insectivorous and <i>Frugivorous</i> ), <i>Funambulus</i> , <i>Loris</i> , <i>Herpestes</i> , <i>Erinaceous</i>	DM/LM/ICT/IM/GD		Text books, Reference books, PPTs, Lab Manual	5.1-5.6
7		Power point presentation on study of any two animals from two different classes by students. Submission of album of local species	DM/LM/ICT/IM/GD		Text books, Reference books, PPTs, Lab Manual	5.1-5.6
8		REMEDIAL CLASS/REVISION	DM/LM/ICT/IM/GD			5.1-5.6
9		REMEDIAL CLASS/REVISION	DM/LM/ICT/IM/GD			5.1-5.6
10		REMEDIAL CLASS/REVISION	DM/LM/ICT/IM/GD			5.1-5.6
11		Question-Answer Discussion				5.1-5.6
12		Viva-voce				

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model), GD-Group Discussion, PL-Peer Learning

# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 3<sup>RD</sup> SEMESTER

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	III	III	III	III
<b>Course Name</b>	Core Paper VI Physiology: Controlling and Coordinating Systems	Core Paper VI Physiology: Controlling and Coordinating Systems	Core Paper VI Physiology: Controlling and Coordinating Systems	Core Paper VI Physiology: Controlling and Coordinating Systems
<b>Units Assigned</b>	Unit 1: Tissues & Tissue system	Unit 3: Reproductive System	Unit 4: Endocrine System	Unit 2: Muscle & Nervous System
<b>No of Weeks</b>	12	12	12	12
<b>No of Periods/week</b>	05 Theory+01 Practical	04 Theory+ 01 Practical	02 Theory	04 Theory + 01 Practical
<b>Teacher's Name</b>	Dr. Priti Pragyvan Ray	Smt. Sushree Shibance Dash	Sri Saresk Kumar Nayak	Smt. Ananda Rukmini

Total No. of periods: 180 (Theory) + 36 (Lab) = 216

Total No. of Core Papers in Semester-III = 03 (CC-V, CC-VI & CC-VII)

Total No. of Theory Classes Available for CC-VI = 180/3= 60

<b>Period</b>	<b>Unit</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding Cos</b>
<b>1</b>	<b>I</b>	Structure, location, functions of epithelial tissue	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>2</b>		Structure, location, functions of epithelial tissue	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>3</b>		Structure, location, functions of epithelial tissue	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>4</b>		Connective tissue	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>5</b>		Muscular tissue	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>6</b>		Muscular tissue	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6

7		Nervous tissue	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
8		Nervous tissue	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
9		Structure and types of bones and cartilages	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
10		Ossification, bone growth and resorption	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
11		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
12		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
13		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
14		<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
15		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
16	<b>II</b>	Histology of different types of muscle	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
17		Ultra structure of skeletal muscle	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
18		Molecular and chemical basis of muscle contraction	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
19		Structure of neuron, resting membrane potential	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
20		Structure of neuron, resting membrane potential	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
21		Origin of action potential and its propagation across the myelinated and unmyelinated nerve fibers	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
22		Origin of action potential and its propagation across the myelinated and unmyelinated nerve fibers	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
23		Types of synapse, Synaptic transmission and, Neuromuscular junction	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
24		Reflex action and its types - reflex arc	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
25		Physiology of hearing	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6

					PPTs	
<b>26</b>	Physiology of vision		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>27</b>	<b>DOUBT CLEARING</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>28</b>	<b>REMEDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>29</b>	<b>REMEDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>30</b>	<b>UNIT TEST</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>31</b>	Histology of testis	<b>III</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>32</b>	Histology of ovary		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>33</b>	Physiology of male reproduction		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>34</b>	Physiology of female reproduction		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>35</b>	Hypothalamus- Pituitary & Gonadal axis		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>36</b>	Puberty		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>37</b>	Ovarian Cycle		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>38</b>	Ovarian Cycle; Methods of contraception in male		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>39</b>	Methods of contraception in female		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>40</b>	Placental hormones		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>41</b>	<b>DOUBT CLEARING</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>42</b>	<b>REMEDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>43</b>	<b>REMEDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	
<b>44</b>	<b>CLASS PRESENTATION/PEER LEARNING</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6	

<b>45</b>	<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>46</b>	<b>IV</b> Histology of endocrine glands – Hypothalamus (Neuroendocrine gland)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>47</b>	Pineal	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>48</b>	Pituitary	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>49</b>	Pituitary	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>50</b>	Thyroid	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>51</b>	Parathyroid	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>52</b>	Pancreas	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>53</b>	Adrenal; hormones secreted by them and their mechanism of action	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>54</b>	Adrenal; hormones secreted by them and their mechanism of action	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>55</b>	Classification of hormones and mechanism of hormone action (steroidal and non-steroidal hormones)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>56</b>	Classification of hormones and mechanism of hormone action (steroidal and non-steroidal hormones)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>57</b>	<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>58</b>	<b>REMDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	6.1-6.6
<b>59</b>	<b>UNIT TEST</b>		Text books, Reference books, PPTs	6.1-6.6
<b>60</b>	<b>CLASS TEST</b>		Text books, Reference books, PPTs	6.1-6.6



<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	III	III	III
<b>Course Name</b>	Core Paper VI Physiology: Controlling and Coordinating Systems	Core Paper VI Physiology: Controlling and Coordinating Systems	Core Paper VI Physiology: Controlling and Coordinating Systems
<b>No of Weeks</b>	12	12	12
<b>No of Periods/week</b>	01 Practical	01 Practical	01 Practical
<b>Teacher's Name</b>	Dr. Priti Pragyan Ray	Smt. Sushree Shibance Dash	Smt. Ananda Rukmini
<b>Periods Available for CC-VI Practical</b>	4	4	4
<b>Period</b>	<b>CC-VI Practical</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>
1	Demonstration of the unconditioned reflex action (Deep tendon reflex such as knee jerk reflex)	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
2	Study of permanent slides- Squamous epithelium, Striated muscle fibres and nerve cells	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
3	Study of permanent slides-Pancreas, Testis, Ovary, Adrenal, Thyroid and Parathyroid	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
4	Microtomy: Preparation of permanent slides/photographs/computer models of any five types of mammalian (Goat/rat, etc) tissues	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
5	Microtomy: Preparation of permanent slides/photographs/computer models of any five types of mammalian (Goat/rat, etc) tissues	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
6	<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
7	<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
8	<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual

				Reference books, PPTs, Lab Manual	
9	<b>REMEDIAL CLASS/REVISION</b>		DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	6.1-6.6
10	<b>REMEDIAL CLASS/REVISION</b>		DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	6.1-6.6
11	<b>Question-Answer Discussion</b>		ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	6.1-6.6
12	<b>Viva-voce</b>				

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model), GD-Group Discussion, PL-Peer Learning

# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 3<sup>RD</sup> SEMESTER

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	III	III	III	III
<b>Course Name</b>	Core Paper VII Fundamentals of Biochemistry	Core Paper VII Fundamentals of Biochemistry	Core Paper VII Fundamentals of Biochemistry	Core Paper VII Fundamentals of Biochemistry
<b>Units Assigned</b>	Unit 4: Enzymes	Unit 4: Enzymes Unit 2: Proteins	Unit 3: Nucleic Acids	Unit 1: Carbohydrates & Lipids
<b>No of Weeks</b>	12	12	12	12
<b>No of Periods/week</b>	05 Theory+01 Practical	04 Theory+ 01 Practical	02 Theory	04 Theory + 01 Practical
<b>Teacher's Name</b>	Dr. Priti Pragyay Ray	Smt. Sushree Shibance Dash	Sri Suresh Kumar Nayak	Smt. Ananda Rukmini

Total No. of periods: 180 (Theory) + 36 (Lab) = 216

Total No. of Core Papers in Semester-III = 03 (CC-V, CC-VI & CC-VII)

Total No. of Theory Classes Available for CC-VII = 180/3= 60

<b>Period</b>	<b>Unit</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding Cos</b>
<b>1</b>	<b>I</b>	Structure and Monosaccharides	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>2</b>		Disaccharides	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>3</b>		Polysaccharides	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>4</b>		Glycoconjugates	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>5</b>		Structure and Significance: Physiologically important saturated and unsaturated fatty acids	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>6</b>		Structure and Significance: Physiologically	LM/ICT/IM/DM/GD	Text books, Reference books,	7.1-7.6

		important saturated and unsaturated fatty acids		PPTs	
7		Tri-acylglycerols	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
8		Phospholipids	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
9		Glycolipids	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
10		Steroids	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
11		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
12		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
13		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
14		<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
15		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
16	<b>II</b>	Amino acids: Structure, Classification and General properties of $\alpha$ -amino acids	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
17		Amino acids: Structure, Classification and General properties of $\alpha$ -amino acids	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
18		Physiological importance of essential and non-essential $\alpha$ -amino acids	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
19		Physiological importance of essential and non-essential $\alpha$ -amino acids	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
20		Proteins: Bonds stabilizing protein structure	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
21		Levels of organization in proteins	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
22		Renaturation, Denaturation; Introduction to simple and conjugate proteins	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
23		Renaturation, Denaturation; Introduction to simple and conjugate proteins	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
24		Immunoglobulins: Basic Structure, Classes and Function	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
25		Immunoglobulins: Basic Structure, Classes and	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6

	Function		PPTs	
<b>26</b>	Antigenic Determinants	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>27</b>	<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>28</b>	<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>29</b>	<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>30</b>	<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>31</b>	<b>III</b> Structure: Purines and pyrimidines	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>32</b>	Structure: Purines and pyrimidines	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>33</b>	Nucleosides, Nucleotides	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>34</b>	Nucleic acids Cot Curves	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>35</b>	Base pairing, Denaturation and Renaturation of DNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>36</b>	Types of DNA and RNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>37</b>	Types of DNA and RNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>38</b>	Types of DNA and RNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>39</b>	Complementarity of DNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>40</b>	Hypo-Hyperchromaticity of DNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>41</b>	<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>42</b>	<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>43</b>	<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>44</b>	<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6

<b>45</b>		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>46</b>	<b>IV</b>	Nomenclature and classification of Enzymes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>47</b>		Cofactors	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>48</b>		Specificity of enzyme action	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>49</b>		Isozymes; Mechanism of enzyme action	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>50</b>		Enzyme kinetics; Factors affecting rate of enzyme-catalyzed reactions	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>51</b>		Derivation of Michaelis-Menten equation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>52</b>		Concept of Km and Vmax, Lineweaver- Burk plot	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>53</b>		Multi-substrate reactions	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>54</b>		Enzyme inhibition	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>55</b>		Allosteric enzymes and their kinetics	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>56</b>		Regulation of enzyme action	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>57</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>58</b>		<b>REMDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	7.1-7.6
<b>59</b>		<b>UNIT TEST</b>		Text books, Reference books, PPTs	7.1-7.6
<b>60</b>		<b>CLASS TEST</b>		Text books, Reference books, PPTs	7.1-7.6

Department	ZOOLOGY	ZOOLOGY	ZOOLOGY		
Semester	III	III	III		
Course Name	Core Paper VII Fundamentals of Biochemistry Practical	Core Paper VII Fundamentals of Biochemistry Practical	Core Paper VII Fundamentals of Biochemistry Practical		
No of Weeks	12	12	12		
No of Periods/week	01 Practical	01 Practical	01 Practical		
Teacher's Name	Dr. Priti Pragyan Ray	Smt. Sushree Shibance Dash	Smt. Ananda Rukmini		
Periods Available for CC-VII Practical	4	4	4		
Period	CC-VII Practical	Topics	Method of Teaching (LM/ICT/IM/DM/GD)	Source of Teaching Materials	Corresponding Cos
1		Qualitative tests of functional groups in carbohydrates	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	7.1-7.6
2		Qualitative tests of functional groups in proteins	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	7.1-7.6
3		Qualitative tests of functional groups in lipids	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	7.1-7.6
4		Paper chromatography of amino acids	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	7.1-7.6
5		Action of salivary amylase under optimum conditions	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	7.1-7.6
6		Effect of pH, temperature and inhibitors on the action of salivary amylase/Urease/acid or alkaline phosphatase	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	7.1-7.6
7		Effect of pH, temperature and inhibitors on the action of salivary amylase/Urease/acid or alkaline phosphatase	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	7.1-7.6

8	Effect of pH, temperature and inhibitors on the action of salivary amylase./Urease/acid or alkaline phosphatase	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	7.1-7.6
9	Demonstration of proteins separation by SDS-PAGE	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	7.1-7.6
10	<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	7.1-7.6
11	<b>Question-Answer Discussion</b>	ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	7.1-7.6
12	<b>Viva-voce</b>			7.1-7.6

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model), GD-Group Discussion, PL-Peer Learning



# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 3<sup>RD</sup> SEMESTER GE-III

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	III	III	III	III
<b>Course Name</b>	Generic Elective Paper III Human Physiology	Generic Elective Paper III Human Physiology	Generic Elective Paper III Human Physiology	Generic Elective Paper III Human Physiology
<b>Units Assigned</b>	Unit 3: Renal Physiology and Cardiovascular Physiology	Unit 1: Digestion and Respiratory Physiology Unit 4: Endocrine and Reproductive Physiology	Unit 3: Renal Physiology and Cardiovascular Physiology Unit 4: Endocrine and Reproductive Physiology	Unit 1: Digestion and Respiratory Physiology Unit 2: Functioning of Excitable Tissue (Nerve and Muscle)
<b>No of Weeks</b>	12	12	12	12
<b>No of Periods/week</b>	01 Theory	02 Theory	01 Theory + 01 Practical	01 Theory
<b>Teacher's Name</b>	Dr. Priti Pragyan Ray	Smt. Sushree Shibance Dash	Sri Suresh Kumar Nayak	Smt. Ananda Rukmini

Total No. of periods: 60 (Theory) + 12 (Lab) = 72

Total No. of G.E. Papers in Semester-III = 01 (GE-III)

Total No. of Theory Classes Available for GE-III = 60

<b>Period</b>	<b>Unit</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding Cos</b>
<b>1</b>	<b>I</b>	Structure and function of digestive glands	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
<b>2</b>		Structure and function of digestive glands	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
<b>3</b>		Digestion and absorption of carbohydrates	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
<b>4</b>		Digestion and absorption of fats and proteins	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
<b>5</b>		Nervous and hormonal control of digestion (in brief)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
<b>6</b>		Ventilation, External and internal Respiration	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6

7		Transport of oxygen and carbon dioxide in blood	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
8		Transport of oxygen and carbon dioxide in blood	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
9		Factors affecting transport of gases	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
10		Factors affecting transport of gases	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
11		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
12		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
13		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
14		<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
15		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
16	<b>II</b>	Structure of neuron	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
17		Propagation of nerve impulse (myelinated and non-myelinated nerve fiber)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
18		Propagation of nerve impulse (myelinated and non-myelinated nerve fiber)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
19		Propagation of nerve impulse (myelinated and non-myelinated nerve fiber)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
20		Structure of skeletal muscle	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
21		Structure of skeletal muscle	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
22		Mechanism of muscle contraction (Sliding filament theory)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
23		Mechanism of muscle contraction (Sliding filament theory)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
24		Neuromuscular junction	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
25		Neuromuscular junction	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6

26			LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
27		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
28		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
29		<b>REMDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
30		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
31	<b>III</b>	Functional anatomy of kidney	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
32		Functional anatomy of kidney	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
33		Mechanism and regulation of urine formation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
34		Mechanism and regulation of urine formation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
35		Structure of heart	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
36		Coordination of heartbeat	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
37		Cardiac cycle	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
38		Cardiac cycle	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
39		EKG	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
40		EKG	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
41		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
42		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
43		<b>REMDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
44		<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
45		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6

46	<b>IV</b>	Structure and function of endocrine glands: Pituitary	LM/ICT/IM/DM/GD	PPTs Text books, Reference books, PPTs	GE3.1-GE3.6
47		Pituitary	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
48		Thyroid	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
49		Parathyroid	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
50		Pancreas	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
51		Adrenal	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
52		Adrenal	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
53		Ovaries	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
54		Testes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
55		Brief account of spermatogenesis and oogenesis	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
56		Menstrual cycle	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
57		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
58		<b>REMDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE3.1-GE3.6
59		<b>UNIT TEST</b>		Text books, Reference books, PPTs	GE3.1-GE3.6
60		<b>CLASS TEST</b>		Text books, Reference books, PPTs	GE3.1-GE3.6

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	III		
<b>Course Name</b>	Generic Elective Paper III: Human Physiology Practical		
<b>No of Weeks</b>	12		

No of Periods/week	01 Practical						Corresponding Cos
Teacher's Name	Sri Suresh Kumar Nayak						
Periods Available for GE-III Practical	12						
Period	GE-III Practical	Topics	Method of Teaching (LM/ICT/IM/DM/GD)	Source of Teaching Materials	Corresponding Cos		
1		Preparation of temporary mounts: neurons and blood film	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE3.1-GE3.6		
2		Preparation of temporary mounts: neurons and blood film	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE3.1-GE3.6		
3		Preparation of haemin and haemochromogen crystals	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE3.1-GE3.6		
4		Preparation of haemin and haemochromogen crystals	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE3.1-GE3.6		
5		Estimation of haemoglobin using sahli's haemoglobinometer	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE3.1-GE3.6		
6		Examination of permanent histological sections of mammalian oesophagus, stomach, duodenum	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE3.1-GE3.6		
7		Rectum, lung, kidney, thyroid	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE3.1-GE3.6		
8		Pancreas, adrenal, testis, ovary	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE3.1-GE3.6		
9		<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE3.1-GE3.6		
10		<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE3.1-GE3.6		
11		<b>Question-Answer Discussion</b>	ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE3.1-GE3.6		
12		<b>Viva-voce</b>			GE3.1-GE3.6		

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model), GD-Group Discussion, PL-Peer Learning

# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 5<sup>TH</sup> SEMESTER

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	V	V	V	V
<b>Course</b>	Core Paper XI: Molecular Biology	Core Paper XI: Molecular Biology	Core Paper XI: Molecular Biology	Core Paper XI: Molecular Biology
<b>Unit</b>	Unit 2: Transcription & Translation	Unit 4: Gene Regulation & Regulatory RNAs	Unit 1: Nucleic Acids, DNA Replication & Repair	Unit 3: Post Transcriptional Modifications and Processing of Eukaryotic RNA
<b>No of Weeks</b>	12	12	12	12
<b>No of Periods/week</b>	05 Theory + 2 Practical	06 Theory + 1 Practical	03 Theory	03 Theory + 1 Practical
<b>Teacher's Name</b>	Dr. Priti Pragyay Ray	Smt. Sushree Shibance Dash	Sri Suresh Kumar Nayak	Smt. Ananda Rukmini

Total No. of periods: 240 (Theory) + 48 (Lab) = 288

Total No. of Papers in Semester-V = 04 (CC-XI, CC-XII, DSE-I, DSE-II)

Total No. of Theory Classes Available for CC-XI = 240/4 = 60

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM/GD)	Source of Teaching Materials	Corresponding Cos
1	I	Salient features of DNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
2		Salient features of RNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
3		Watson and Crick model of DNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
4		DNA Replication in prokaryotes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
5		DNA Replication in eukaryotes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
6		Mechanism of DNA replication	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
7		Semi-conservative, bidirectional and semi-	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6

		discontinuous replication			PPTs	
<b>8</b>		RNA priming, Replication of circular and linear ds- DNA	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>9</b>		Replication of telomeres	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>10</b>		Pyrimidine dimerization and mismatch repair	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>11</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>12</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>13</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>14</b>		<b>CLASS PRESENTATION /PEER LEARNING</b>	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>15</b>		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>16</b>	<b>II</b>	RNA polymerase and transcription Unit	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>17</b>		Mechanism of transcription in prokaryotes and eukaryotes	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>18</b>		Synthesis of rRNA and mRNA	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>19</b>		Transcription factors and regulation of transcription	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>20</b>		Transcription factors and regulation of transcription	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>21</b>		Genetic code, Degeneracy of the genetic code and Wobble Hypothesis	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>22</b>		Process of protein synthesis in prokaryotes	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>23</b>		Ribosome structure and assembly in prokaryotes	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>24</b>		Fidelity of protein synthesis, aminoacyl tRNA synthetases and charging of tRNA	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>25</b>		Proteins involved in initiation, elongation and termination of polypeptide chain	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6
<b>26</b>		Inhibitors of protein synthesis	LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	11.1-11.6

27		Difference between prokaryotic and eukaryotic translation	LM/ICT/IM/DM/GD	PPTs Text books, Reference books, PPTs	11.1-11.6
28		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
29		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
30		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
31	<b>III</b>	Structure of globin mRNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
32		Split genes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
33		Concept of introns and exons	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
34		Splicing mechanism	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
35		Splicing mechanism	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
36		Alternative splicing	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
37		Exon shuffling	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
38		RNA editing	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
39		Processing of tRNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
40		Processing of tRNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
41		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
42		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
43		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
44		<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
45		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6



<b>46</b>	<b>IV</b>	Transcription regulation in prokaryotes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
<b>47</b>		Principles of transcriptional regulation with examples from lac operon and trp operon	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
<b>48</b>		Principles of transcriptional regulation with examples from lac operon and trp operon	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
<b>49</b>		Transcription regulation in eukaryotes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
<b>50</b>		Transcription regulation in eukaryotes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
<b>51</b>		Transcription regulation in eukaryotes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
<b>52</b>		Activators, repressors, enhancers, silencer elements	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
<b>53</b>		Gene silencing	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
<b>54</b>		Gene silencing	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
<b>55</b>		RNA interference: miRNA, siRNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
<b>56</b>		RNA interference: miRNA, siRNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
<b>57</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
<b>58</b>		<b>REMDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	11.1-11.6
<b>59</b>		<b>UNIT TEST</b>		Text books, Reference books, PPTs	11.1-11.6
<b>60</b>		<b>CLASS TEST</b>		Text books, Reference books, PPTs	11.1-11.6

<b>Department</b>	ZOOLOGY				
<b>Semester</b>	V				
<b>Course Name</b>	Core Paper XI: Molecular Biology Practical				
<b>No of Weeks</b>	12				
<b>No of Periods/week</b>	01 Practical				
<b>Teacher's Name</b>	Dr. Priti Pragyan Ray				
<b>Periods Available for CC-XI Practical</b>	12				
<b>Period</b>	<b>CC-XI Practical</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding Cos</b>
1		Study of Polytene chromosomes from Chironomous / Drosophila larvae	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	11.1-11.6
2		Preparation of liquid culture medium (LB) and raise culture of E. coli	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	11.1-11.6
3		Estimation of the growth kinetics of E. coli by turbidity method	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	11.1-11.6
4		Preparation of solid culture medium (LB) and growth of E. coli by spreading and streaking	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	11.1-11.6
5		Quantitative estimation of salmon sperm/calf thymus DNA using colorimeter (Diphenylamine reagent) or spectrophotometer (A260nm measurement)	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	11.1-11.6
6		Quantitative estimation of RNA using Orcinol reaction	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	11.1-11.6
7		Study and interpretation of electron micrographs/ photograph showing (a) DNA replication, (b) Transcription and (c) Split genes	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	11.1-11.6
8		Study and interpretation of electron micrographs/ photograph showing (a) DNA replication, (b) Transcription and (c) Split genes	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	11.1-11.6
9		<b>DOUBT CLEARING</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	11.1-11.6

10		<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	11.1-11.6
11		<b>Question-Answer Discussion</b>	ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	11.1-11.6
12		<b>Viva-voce</b>			11.1-11.6

# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 5<sup>TH</sup> SEMESTER

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	V	V	V	V	V
<b>Course Name</b>	Core Paper XII: Principles of Genetics				
<b>Units Assigned</b>	Unit 4: Recombination in Bacteria and Viruses & Transposable Genetic Elements Unit 2: Mutation	Unit 1: Crossing Over and Chromosomal Mapping	Unit 1: Mendelian Genetics, Linkage,	Unit 3: Sex Determination & Extra-chromosomal Inheritance	
<b>No of Weeks</b>	12	12	12	12	
<b>No of Periods/week</b>	05 Theory + 2 Practical	06 Theory + 1 Practical	03 Theory	03 Theory + 1 Practical	
<b>Teacher's Name</b>	Dr. Priti Pragyan Ray	Smt. Sushree Shibance Dash	Sri Suresh Kumar Nayak	Smt. Ananda Rukmini	

Total No. of periods: 240 (Theory) + 48 (Lab) = 288

Total No. of Papers in Semester-V = 04 (CC-XI, CC-XII, DSE-I, DSE-II)

Total No. of Theory Classes Available for CC-XII = 240/4 = 60

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM/GD)	Source of Teaching Materials	Corresponding Cos
1	I	Principles of inheritance	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
2		Incomplete dominance and co-dominance	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
3		Multiple alleles, Lethal alleles	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
4		Epistasis	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
5		Pleiotropy	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
6		Sex-linked, sex-influenced and sex-limited characters inheritance	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6

7		Polygenic inheritance with suitable examples; simple numericals based on it	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
8		Linkage and crossing over, Cytological basis of crossing over	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
9		Molecular mechanisms of crossing over including models of recombination	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
10		Recombination frequency as a measure of linkage intensity	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
11		Two factor and three factor crosses	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
12		Interference and coincidence	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
13		Somatic cell hybridization	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
14		<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
15		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
16	<b>II</b>	Types of gene mutations (Classification)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
17		Types of gene mutations (Classification)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
18		Types of chromosomal aberrations (Classification, figures and with one suitable example of each)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
19		Types of chromosomal aberrations (Classification, figures and with one suitable example of each)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
20		Molecular basis of mutations in relation to UV light and chemical mutagens	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
21		Molecular basis of mutations in relation to UV light and chemical mutagens	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
22		Detection of mutations: CLB method	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
23		Detection of mutations: CLB method	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
24		Detection of mutations: attached X method	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6

<b>25</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>26</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>27</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>28</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>29</b>		<b>CLASS PRESENTATION(PEER LEARNING)</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>30</b>		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>31</b>	<b>III</b>	Chromosomal mechanisms of sex determination in <i>Drosophila</i> and Man	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>32</b>		Criteria for extra- chromosomal inheritance	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>33</b>		Antibiotic resistance in <i>Chlamydomonas</i>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>34</b>		Antibiotic resistance in <i>Chlamydomonas</i>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>35</b>		Mitochondrial mutations in <i>Saccharomyces</i>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>36</b>		Mitochondrial mutations in <i>Saccharomyces</i>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>37</b>		Infective heredity in <i>Paramecium</i> and Maternal effects	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>38</b>		Infective heredity in <i>Paramecium</i> and Maternal effects	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>39</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>40</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>41</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>42</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>43</b>		<b>CLASS PRESENTATION(PEER LEARNING)</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6
<b>44</b>		<b>CLASS PRESENTATION(PEER LEARNING)</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	12.1-12.6

		<b>LEARNING)</b>				
<b>45</b>		<b>UNIT TEST</b>			LM/ICT/IM/DM/GD	PPTs Text books, Reference books, PPTs
<b>46</b>	<b>IV</b>	Conjugation			LM/ICT/IM/DM/GD	Text books, Reference books, PPTs
<b>47</b>		Transformation			LM/ICT/IM/DM/GD	Text books, Reference books, PPTs
<b>48</b>		Transduction			LM/ICT/IM/DM/GD	Text books, Reference books, PPTs
<b>49</b>		Complementation test in Bacteriophage			LM/ICT/IM/DM/GD	Text books, Reference books, PPTs
<b>50</b>		Complementation test in Bacteriophage			LM/ICT/IM/DM/GD	Text books, Reference books, PPTs
<b>51</b>		Transposons in bacteria			LM/ICT/IM/DM/GD	Text books, Reference books, PPTs
<b>52</b>		Ac-Ds elements in maize			LM/ICT/IM/DM/GD	Text books, Reference books, PPTs
<b>53</b>		P elements in Drosophila			LM/ICT/IM/DM/GD	Text books, Reference books, PPTs
<b>54</b>		P elements in Drosophila			LM/ICT/IM/DM/GD	Text books, Reference books, PPTs
<b>55</b>		Transposons in human			LM/ICT/IM/DM/GD	Text books, Reference books, PPTs
<b>56</b>		Transposons in human			LM/ICT/IM/DM/GD	Text books, Reference books, PPTs
<b>57</b>		<b>DOUBT CLEARING</b>			LM/ICT/IM/DM/GD	Text books, Reference books, PPTs
<b>58</b>		<b>REMDIAL CLASS/REVISION</b>			LM/ICT/IM/DM/GD	Text books, Reference books, PPTs
<b>59</b>		<b>UNIT TEST</b>				Text books, Reference books, PPTs
<b>60</b>		<b>CLASS TEST</b>				Text books, Reference books, PPTs

<b>Department</b>	ZOOLOGY				
<b>Semester</b>	V				
<b>Course Name</b>	Core Paper XII: Principles of Genetics				
<b>No of Weeks</b>	12				
<b>No of Periods/week</b>	01 Practical				
<b>Teacher's Name</b>	Sushree Shibance Dash				
<b>Periods Available for CC-XII Practical</b>	12				
<b>Period</b>	<b>CC-XII Practical</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding Cos</b>
1		Study of Mendelian laws and gene interactions	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	12.1-12.6
2		Study of Mendelian laws and gene interactions	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	12.1-12.6
3		Linkage maps based on data from conjugation, transformation and transduction	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	12.1-12.6
4		Linkage maps based on data from <i>Drosophila</i> crosses	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	12.1-12.6
5		Study of human karyotype (normal and abnormal)	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	12.1-12.6
6		Study of human karyotype (normal and abnormal)	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	12.1-12.6
7		Pedigree analysis of some human inherited traits	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	12.1-12.6
8		Pedigree analysis of some human inherited traits	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	12.1-12.6
9		<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	12.1-12.6
10		<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	12.1-12.6
11		<b>Question-Answer Discussion</b>	ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	12.1-12.6
12		<b>Viva-voce</b>			12.1-12.6



# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 5<sup>TH</sup> SEMESTER

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	V	V	V	V
<b>Course Name</b>	DSE-I: Animal Biotechnology	DSE-I: Animal Biotechnology	DSE-I: Animal Biotechnology	DSE-I: Animal Biotechnology
<b>Units Assigned</b>	Unit 1. Introduction to Animal Biotechnology	Unit 4. Culture Techniques and Applications	Unit 2. Molecular Techniques	Unit 3. Genetically Modified Organisms
<b>No of Weeks</b>	12	12	12	12
<b>No of Periods/week</b>	05 Theory + 2 Practical	06 Theory + 1 Practical	03 Theory	03 Theory + 1 Practical
<b>Teacher's Name</b>	Dr. Priti Pragyay Ray	Smt. Sushree Shibance Dash	Sri Suresh Kumar Nayak	Smt. Ananda Rukmini

Total No. of periods: 240 (Theory) + 48 (Lab) = 288

Total No. of Papers in Semester-V = 04 (CC-XI, CC-XII, DSE-I, DSE-II)

Total No. of Theory Classes Available for DSE-I = 240/4 = 60

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM/GD)	Source of Teaching Materials	Corresponding Cos
1	I	Concept and scope of biotechnology	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
2		Cloning vectors: Plasmids, Cosmids	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
3		Phagemids, Lambda Bacteriophage	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
4		M13, BAC	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
5		YAC and Expression vectors (characteristics)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
6		YAC and Expression vectors (characteristics)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
7		Restriction enzymes: Nomenclature, detailed study of Type II	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
8		Restriction enzymes: Nomenclature, detailed	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6

		study of Type II				
<b>9</b>		Construction of genomic and cDNA libraries and screening by colony and plaque hybridization	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>10</b>		Construction of genomic and cDNA libraries and screening by colony and plaque hybridization	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>11</b>		Transformation techniques: Calcium chloride method and electroporation	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>12</b>		Transformation techniques: Calcium chloride method and electroporation	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>13</b>		<b>DOUBT CLEARING</b>	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>14</b>		<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>15</b>		<b>UNIT TEST</b>	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>16</b>	<b>II</b>	Southern blotting	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>17</b>		Northern blotting	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>18</b>		Western blotting	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>19</b>		Western blotting	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>20</b>		DNA sequencing: Sanger method	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>21</b>		Polymerase Chain Reaction	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>22</b>		Polymerase Chain Reaction	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>23</b>		DNA Finger Printing	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>24</b>		DNA Finger Printing	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>25</b>		DNA microarray	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6
<b>26</b>		<b>DOUBT CLEARING</b>	LM/CT/IM/DM/GD	PPTs	Text books, Reference books, PPTs	DSE1.1-DSE1.6

27		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
28		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
29		<b>CLASS PRESENTATION(PEER LEARNING)</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
30		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
31	<b>III</b>	Production of cloned and transgenic animals: Nuclear Transplantation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
32		Production of cloned and transgenic animals: Retroviral Method	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
33		Production of cloned and transgenic animals: Retroviral Method	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
34		Production of cloned and transgenic animals: DNA microinjection	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
35		Production of cloned and transgenic animals: DNA microinjection	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
36		Applications of transgenic animals: Production of pharmaceuticals	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
37		Applications of transgenic animals: Production of pharmaceuticals	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
38		Applications of transgenic animals: Production of donor organs	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
39		Applications of transgenic animals: Production of donor organs	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
40		Applications of transgenic animals: Knock-out mice	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
41		Applications of transgenic animals: Knock-out mice	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
42		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
43		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6
44		<b>CLASS PRESENTATION(PEER LEARNING)</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1-DSE1.6

<b>45</b>	<b>UNIT TEST</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>46</b>	Animal cell culture	<b>IV</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>47</b>	Animal cell culture		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>48</b>	Expressing cloned genes in mammalian cells		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>49</b>	Expressing cloned genes in mammalian cells		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>50</b>	Molecular diagnosis of genetic diseases (Cystic fibrosis, Thalassemia)		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>51</b>	Molecular diagnosis of genetic diseases (Cystic fibrosis, Thalassemia)		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>52</b>	Haemophilia and Sickle cell anemia		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>53</b>	Recombinant DNA in medicines		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>54</b>	Recombinant insulin and human growth hormone		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>55</b>	Gene therapy		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>56</b>	Gene therapy		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>57</b>	<b>DOUBT CLEARING</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>58</b>	<b>REMDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>59</b>	<b>UNIT TEST</b>			Text books, Reference books, PPTs	DSE1.1.1-DSE1.6
<b>60</b>	<b>CLASS TEST</b>			Text books, Reference books, PPTs	DSE1.1.1-DSE1.6

<b>Department</b>	ZOOLOGY					
<b>Semester</b>	V					
<b>Course Name</b>	DSE-I: Animal Biotechnology Practical					
<b>No of Weeks</b>	12					
<b>No of Periods/week</b>	01					
<b>Teacher's Name</b>	Dr. Priti Pragyan Raay					
<b>Periods Available for DSE-I Practical</b>	12					
<b>Period</b>	<b>DSE-I Practical</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding Cos</b>	
1		Genomic DNA isolation from E. coli / Animal tissue	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE1.1-DSE1.6	
2		Plasmid DNA isolation (pUC 18/19) from E. coli	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE1.1-DSE1.6	
3		Restriction digestion of plasmid DNA / Lambda Phage DNA	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE1.1-DSE1.6	
4		Construction of circular and linear restriction map from the data provided	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE1.1-DSE1.6	
5		Calculation of transformation efficiency from the data provided	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE1.1-DSE1.6	
6		To study following techniques through photographs- Southern Blotting	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE1.1-DSE1.6	
7		Northern Blotting	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE1.1-DSE1.6	
8		Western Blotting	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE1.1-DSE1.6	
9		DNA Sequencing (Sanger's Method)	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE1.1-DSE1.6	
10		PCR	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE1.1-DSE1.6	
11		DNA fingerprinting	ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE1.1-DSE1.6	
12		<b>Viva-voce</b>			DSE1.1-DSE1.6	

# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 5<sup>TH</sup> SEMESTER

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	V	V	V	V	V
<b>Course Name</b>	DSE-II: Immunology	DSE-II: Immunology	DSE-II: Immunology	DSE-II: Immunology	DSE-II: Immunology
<b>Units Assigned</b>	Unit 2: Antigens and Immunoglobulins	Unit 3: Major Histocompatibility Complex, Cytokines and Complement system	Unit 1: Innate and Adaptive Immunity	Unit 4: Hypersensitivity and Vaccines	
<b>No of Weeks</b>	12	12	12	12	12
<b>No of Periods/week</b>	05 Theory + 2 Practical	06 Theory + 1 Practical	03 Theory	03 Theory + 1 Practical	
<b>Teacher's Name</b>	Dr. Priti Pragyay Ray	Smt. Sushree Shibance Dash	Sri Sareesh Kumar Nayak	Smt. Ananda Rukmini	

Total No. of periods: 240 (Theory) + 48 (Lab) = 288

Total No. of Papers in Semester-V = 04 (CC-XI, CC-XII, DSE-I, DSE-II)

Total No. of Theory Classes Available for DSE-II = 240/4 = 60

<b>Period</b>	<b>Unit</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding Cos</b>
<b>1</b>	<b>I</b>	Historical perspective of Immunology, Early theories of Immunology	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>2</b>		Historical perspective of Immunology, Early theories of Immunology	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>3</b>		Cells and organs of the Immune system	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>4</b>		Cells and organs of the Immune system	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>5</b>		Anatomical barriers, Inflammation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>6</b>		Cell and molecules involved in innate immunity	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>7</b>		Adaptive immunity (Cell mediated and humoral),	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6

					PPTs	
<b>8</b>		Passive: Artificial and natural Immunity		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>9</b>		Active: Artificial and natural Immunity		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>10</b>		Immune dysfunctions (brief account of autoimmunity with reference to Rheumatoid Arthritis)		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>11</b>		Immune dysfunctions (brief account of autoimmunity with reference to tolerance)		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>12</b>		Immune dysfunctions (brief account of autoimmunity with reference to AIDS)		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>13</b>		<b>DOUBT CLEARING</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>14</b>		<b>REMDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>15</b>		<b>UNIT TEST</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>16</b>	<b>II</b>	Antigenicity and immunogenicity		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>17</b>		Immunogens, Adjuvants and haptens		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>18</b>		Factors influencing immunogenicity		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>19</b>		Factors influencing immunogenicity		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>20</b>		B and T-Cell epitopes		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>21</b>		B and T-Cell epitopes		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>22</b>		Immunoglobulins: Structure and functions of different classes of immunoglobulins		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>23</b>		Antigen antibody interactions		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>24</b>		Immunoassays (ELISA- Direct, Indirect, Competitive, Sandwich)		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>25</b>		RIA		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
<b>26</b>		<b>DOUBT CLEARING</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6

<b>27</b>				<b>REMEDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD	PPTs Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>28</b>				<b>REMEDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>29</b>				<b>CLASS PRESENTATION(PEER LEARNING)</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>30</b>				<b>UNIT TEST</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>31</b>		<b>III</b>		Structure and functions of MHC molecules		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>32</b>				Structure and functions of MHC molecules		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>33</b>				Endogenous and exogenous pathways of antigen processing and presentation		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>34</b>				Endogenous and exogenous pathways of antigen processing and presentation		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>35</b>				Cytokines -Properties and functions of cytokines		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>36</b>				Cytokines -Properties and functions of cytokines		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>37</b>				Therapeutics Cytokines		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>38</b>				Therapeutics Cytokines		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>39</b>				Complement System -Components and pathways of complement activation		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>40</b>				Complement System -Components and pathways of complement activation		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>41</b>				Complement System -Components and pathways of complement activation		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>42</b>				<b>DOUBT CLEARING</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>43</b>				<b>REMEDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>44</b>				<b>CLASS PRESENTATION(PEER LEARNING)</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	
<b>45</b>				<b>UNIT TEST</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6	



46	IV	Gell and Coombs' classification and brief description of various types of hypersensitivities	LM/ICT/IM/DM/GD	PPTs Text books, Reference books, PPTs	DSE2.1-DSE2.6
47		Gell and Coombs' classification and brief description of various types of hypersensitivities	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
48		Gell and Coombs' classification and brief description of various types of hypersensitivities	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
49		Gell and Coombs' classification and brief description of various types of hypersensitivities	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
50		Vaccines -various types of vaccines	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
51		Vaccines -various types of vaccines	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
52		Vaccines -various types of vaccines	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
53		Vaccines -various types of vaccines	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
54		Advances in vaccine production	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
55		Advances in vaccine production	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
56		Advances in vaccine production	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
57		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
58		<b>REMDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE2.1-DSE2.6
59		<b>UNIT TEST</b>		Text books, Reference books, PPTs	DSE2.1-DSE2.6
60		<b>CLASS TEST</b>		Text books, Reference books, PPTs	DSE2.1-DSE2.6

<b>Department</b>	ZOOLOGY				
<b>Semester</b>	V				
<b>Course Name</b>	DSE-II: Immunology Practical				
<b>No of Weeks</b>	12				
<b>No of Periods/week</b>	01 Practical				
<b>Teacher's Name</b>	Ananda Rukmini				
<b>Periods Available for DSE-II Practical</b>	12				
<b>Period</b>	<b>DSE-II Practical</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding Cos</b>
1		Study of lymphoid organs	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE2.1-DSE2.6
2		Histological study of spleen, thymus and lymph nodes through slides/photographs	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE2.1-DSE2.6
3		Preparation of stained blood film to study various types of White blood cells	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE2.1-DSE2.6
4		ABO blood group determination	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE2.1-DSE2.6
5		Total WBC counting	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE2.1-DSE2.6
6		Demonstration of ELISA	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE2.1-DSE2.6
7		Demonstration of Bone marrow smears to study Immune cells	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE2.1-DSE2.6
8		<b>REMDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE2.1-DSE2.6
9		<b>REMDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE2.1-DSE2.6
10		<b>REMDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE2.1-DSE2.6
11		<b>QUESTION ANSWER DISCUSSION</b>	ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE2.1-DSE2.6
12		<b>Viva-voce</b>			DSE2.1-DSE2.6

# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 2<sup>ND</sup> SEMESTER

Department	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	II	II	II	II	II
<b>Course Name</b>	Core Paper III: Non-Chordates II: Coelomates	Core Paper III: Non-Chordates II: Coelomates	Core Paper III: Non-Chordates II: Coelomates	Core Paper III: Non-Chordates II: Coelomates	Core Paper III: Non-Chordates II: Coelomates
<b>Units Assigned</b>	Unit 4: Echinodermata	Unit 3: Mollusca	Unit 1: Coelomates and Annelids	Unit 2: Arthropoda and Onychophora	Unit 2: Arthropoda and Onychophora
<b>No of Weeks</b>	12	12	12	12	12
<b>No of Periods/week</b>	03 Theory	02 Theory+01 Practical	02 Theory + 01 Practical	03 Theory	03 Theory
<b>Teacher's Name</b>	Dr. Priti Pragyay Ray	Smt. Sushree Shibance Dash	Sri Suresh Kumar Nayak	Smt. Ananda Rukmini	Smt. Ananda Rukmini

Total No. of periods: 120 (Theory) + 24 (Lab) = 144

Total No. of Core Papers in Semester-I = 02 (CC-III & CC-IV)

Total No. of Theory Classes Available for CC-III = 120/2= 60

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/GD)	Source of Teaching Materials	Corresponding Cos
1	I	Evolution of coelom and metamerism	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
2		Evolution of coelom and metamerism	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
3		General characteristics and Classification up to classes	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
4		General characteristics and Classification up to classes	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
5		General characteristics and Classification up to classes	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
6		Excretion in Annelida	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
7		Excretion in Annelida	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
8		Excretion in Annelida	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6

					PPTs	
9		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
10		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
11		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
12		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
13		<b>PRESENTATION BY FAST LEARNERS/PEER LEARNING</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
14		<b>PRESENTATION BY FAST LEARNERS/PEER LEARNING</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
15		<b>UNIT TEST</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
16	II	General characteristics and Classification up to classes	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
17		General characteristics and Classification up to classes	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
18		Vision in Arthropoda	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
19		Vision in Arthropoda	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
20		Respiration in Arthropoda	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
21		Respiration in Arthropoda	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
22		Metamorphosis in Insects	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
23		Metamorphosis in Insects	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
24		Social life in bees	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
25		Social life in termites	LM/ICT/IM/GD		3.1-3.6	
26		Onychophora: General characteristics and Evolutionary significance.	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6	
27		Onychophora: General characteristics and Evolutionary significance.	LM/ICT/IM/GD	Text books, PPTs	3.1-3.6	

28		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
29		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
30		<b>UNIT TEST</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
31	III	Mollusca: General characteristics and Classification up to classes	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
32		Mollusca: General characteristics and Classification up to classes	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
33		Mollusca: General characteristics and Classification up to classes	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
34		Respiration in Mollusca	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
35		Respiration in Mollusca	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
36		Respiration in Mollusca	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
37		Torsion and detorsion in Gastropoda	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
38		Torsion and detorsion in Gastropoda	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
39		Evolutionary significance of trochophore larva	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
40		Evolutionary significance of trochophore larva	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
41		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
42		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
43		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
44		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
45		<b>UNIT TEST</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
46	IV	Echinoderms: General characteristics and Classification up to classes	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6

47	General characteristics and Classification up to classes	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
48	Water-vascular system in Asteroidea	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
49	Water-vascular system in Asteroidea	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
50	Larval forms in Echinodermata	LM/ICT/IM/GD	Text books, PPTs	3.1-3.6
51	Larval forms in Echinodermata	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
52	Affinities with Chordates	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
53	Affinities with Chordates	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
54	<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, PPTs	3.1-3.6
55	<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
56	<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
57	<b>UNIT TEST</b>			3.1-3.6
58	<b>PRESENTATION BY FAST LEARNERS FOR PEER LEARNING</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
59	<b>QUESTION ANSWER DISCUSSION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	3.1-3.6
60	<b>TEST</b>			
<b>Department</b>		ZOOLOGY		
<b>Semester</b>		II		
<b>Course Name</b>		Core Paper III: Non- Chordates II: Coelomates		
<b>No of Weeks</b>		12		
<b>No of Periods/week</b>		01 Practical		
<b>Teacher's Name</b>		Sri Suresh Kumar Nayak		
<b>Periods Available for CC-III Practical</b>		6		
<b>Period</b>	<b>CC-III Practical</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>
1		Annelids - <i>Aphrodite</i> , <i>Nereis</i> , <i>Heteronereis</i> , <i>Sabella</i> , <i>Serpula</i> , <i>Chaetopterus</i> , <i>Pheretima</i> ,	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum
				<b>Corresponding Cos</b> 3.1-3.6

		<i>Hirudinaria</i>			specimen, Microscopic Slides	
2		Arthropods – <i>Tachyplesus</i> , <i>Carcinoscorpious</i> , <i>Palamnaeus</i> , <i>Palaemon</i> , <i>Daphnia</i> , <i>Balanus</i> , <i>Sacculina</i> , <i>Cancer</i> , <i>Eupagurus</i> , <i>Scolopendra</i> , <i>Julus</i> , <i>Bombyx</i> , <i>Periplaneta</i> , termites and honey bees	DM/LM/ICT/IM/GD		Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	3.1-3.6
3		Onychophora – <i>Peripatus</i> Molluscs - <i>Chiton</i> , <i>Dentalium</i> , <i>Pila</i> , <i>Doris</i> , <i>Helix</i> , <i>Unio</i> , <i>Ostrea</i> , <i>Pinctada</i> , <i>Sepia</i> , <i>Octopus</i> , <i>Nautilus</i>	DM/LM/ICT/IM/GD		Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	3.1-3.6
4		Echinodermates - <i>Pentaceros/Asterias</i> , <i>Ophiura</i> , <i>Clypeaster</i> , <i>Echinus</i> , <i>Cucumaria</i> and <i>Antedon</i>	DM/LM/ICT/IM/GD		Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	3.1-3.6
5		T.S. through pharynx, gizzard, and typhlosolar intestine of earthworm.	DM/LM/ICT/IM/GD		Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	3.1-3.6
6		T.S. through pharynx, gizzard, and typhlosolar intestine of earthworm.	DM/LM/ICT/IM/GD		Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	3.1-3.6
7		Mount of mouth parts and dissection of digestive system and nervous system of Periplaneta	DM/LM/ICT/IM/GD		Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	3.1-3.6
8		To submit a Project Report on any related topic to larval forms (crustacean, mollusc and echinoderm)	DM/LM/ICT/IM/GD		Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	3.1-3.6
9		Revision	DM/LM/ICT/IM/GD		Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	3.1-3.6
10		Revision	DM/LM/ICT/IM/GD		Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	3.1-3.6
11		Revision	DM/LM/ICT/IM/GD		Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	3.1-3.6
12		Question answer discussion(Mock Viva-voce)	DM/LM/ICT/IM/GD		Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	3.1-3.6

# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 2<sup>ND</sup> SEMESTER

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	II	II	II	II
<b>Course Name</b>	Core Paper IV: Cell biology	Core Paper IV: Cell biology	Core Paper IV: Cell biology	Core Paper IV: Cell biology
<b>Units Assigned</b>	Unit 2: Cytoskeleton & Endomembrane System	Unit 3: Mitochondria and Peroxisomes	Unit 4: Nucleus, Cell Division and Cell signalling	Unit 1: Overview of cells and plasma membrane
<b>No of Weeks</b>	12	12	12	12
<b>No of Periods/week</b>	03 Theory	02 Theory+01 Practical	02 Theory + 01 Practical	03 Theory
<b>Teacher's Name</b>	Dr. Priti Pragyay Ray	Smt. Sushree Shibancee Dash	Sri Suresh Kumar Nayak	Smt. Ananda Rukmini

Total No. of periods: 120 (Theory) + 24 (Lab) = 144

Total No. of Core Papers in Semester-I = 02 (CC-III & CC-IV)

Total No. of Theory Classes Available for CC-IV = 120/2= 60

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/GD)	Source of Teaching Materials	Corresponding Cos
1	I	Prokaryotic and Eukaryotic cells	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
2		Virus, Viroids	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
3		Mycoplasma, Prions	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
4		Various models of plasma membrane structure	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
5		Various models of plasma membrane structure	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
6		Transport across membranes: Active and Passive transport, Facilitated transport	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
7		Transport across membranes: Active and Passive transport, Facilitated transport	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
8		Cell junctions: Tight junctions, Desmosomes	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6



					PPTs	
9		Cell junctions: Tight junctions, Desmosomes	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
10		Gap junctions	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
11		Gap junctions	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
12		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
13		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
14		<b>PRESENTATION BY FAST LEARNERS/PEER LEARNING</b>	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
15		<b>UNIT TEST</b>	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
16	II	Structure and Functions: Microtubules	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
17		Structure and Functions: Microtubules	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
18		Structure and Functions: Microfilaments	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
19		Structure and Functions: Microfilaments	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
20		Structure and Functions: Intermediate filaments	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
21		Structure and Functions: Intermediate filaments	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
22		Structure and Functions: Endoplasmic Reticulum	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
23		Structure and Functions: Endoplasmic Reticulum	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
24		Structure and Functions: Golgi apparatus	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
25		Structure and Functions: Golgi apparatus	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
26		Structure and Functions: Lysosomes	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6
27		Structure and Functions: Lysosomes	LM/ICT/IM/GD		Text books, PPTs	4.1-4.6
28		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD		Text books, Reference books, PPTs	4.1-4.6

29		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
30		<b>UNIT TEST</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
31	III	Mitochondria: Structure	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
32		Semi-autonomous nature	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
33		Endosymbiotic hypothesis	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
34		Mitochondrial Respiratory Chain	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
35		Mitochondrial Respiratory Chain	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
36		Chemi-osmotic hypothesis	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
37		Peroxisomes	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
38		Peroxisomes	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
39		Peroxisomes	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
40		<b>PRESENTATION BY FAST LEARNERS/PEER LEARNING</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
41		<b>PRESENTATION BY FAST LEARNERS/PEER LEARNING</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
42		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
43		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
44		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
45		<b>UNIT TEST</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
46	IV	Structure of Nucleus	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
47		Nuclear envelope	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6

48	Nuclear pore complex	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
49	Nucleolus	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
50	Chromatin: Euchromatin and Hetrochromatin and packaging (nucleosome)	LM/ICT/IM/GD	Text books, PPTs	4.1-4.6
51	Mitosis	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
52	Meiosis	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
53	Cell cycle and its regulation	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
54	GPCR and Role of second messenger (cAMP)	LM/ICT/IM/GD	Text books, PPTs	4.1-4.6
55	GPCR and Role of second messenger (cAMP)	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
56	<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
57	<b>UNIT TEST</b>			4.1-4.6
58	<b>PRESENTATION BY FAST LEARNERS FOR PEER LEARNING</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
59	<b>QUESTION ANSWER DISCUSSION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	4.1-4.6
60	<b>TEST</b>			
<b>Department</b>			ZOOLOGY	
<b>Semester</b>			II	
<b>Course Name</b>			Core Paper IV: Cell biology	
<b>No of Weeks</b>			12	
<b>No of Periods/week</b>			01 Practical	
<b>Teacher's Name</b>			Smt. Sushree Shibance Dash	
<b>Periods Available for CC-IV Practical</b>			6	
<b>Period</b>	<b>CC-IV Practical</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding COs</b>
1		DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	4.1-4.6
	<b>Topics</b>	Preparation of temporary stained squash of onion root tip to study various stages of mitosis		

2	Study of various stages of meiosis	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	4.1-4.6
3	Preparation of permanent slide to show the presence of Barr body in human female blood cells/cheek cells	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	4.1-4.6
4	Preparation of permanent slide to demonstrate: i. DNA by Feulgen reaction	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	4.1-4.6
5	DNA and RNA by MGP	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	4.1-4.6
6	Mucopolysaccharides by PAS reaction	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	4.1-4.6
7	Proteins by Mercuric bromophenol blue/Fast Green	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	4.1-4.6
8	Demonstration of osmosis (RBC/ Egg etc.)	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	4.1-4.6
9	Revision	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	4.1-4.6
10	Revision	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	4.1-4.6
11	Revision	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	4.1-4.6
12	Question answer discussion(Mock Viva-voce)	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	4.1-4.6

# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 4<sup>TH</sup> SEMESTER

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	IV	IV	IV	IV
<b>Course Name</b>	Core Paper VIII: Comparative Anatomy of Vertebrates	Core Paper VIII: Comparative Anatomy of Vertebrates	Core Paper VIII: Comparative Anatomy of Vertebrates	Core Paper VIII: Comparative Anatomy of Vertebrates
<b>Units Assigned</b>	Unit 3: Circulatory and Urinogenital system	Unit 1: Integumentary & Skeletal System Unit 2: Digestive & Respiratory System	Unit 4: Nervous System & Sense Organs	Unit 1: Integumentary & Skeletal System Unit 2: Digestive & Respiratory System
<b>No of Weeks</b>	12	12	12	12
<b>No of Periods/week</b>	05 Theory+01 Practical	04 Theory+ 01 Practical	02 Theory	04 Theory + 01 Practical
<b>Teacher's Name</b>	Dr. Priti Pragyay Ray	Smt. Sushree Shibance Dash	Sri Suresh Kumar Nayak	Smt. Ananda Rukmini

Total No. of periods: 180 (Theory) + 36 (Lab) = 216

Total No. of Papers in Semester-IV = 03 (CC-VIII, CC-IX, CC-X)

Total No. of Theory Classes Available for CC-VIII = 60

<b>Period</b>	<b>Unit</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding Cos</b>
1	I	Structure, functions and derivatives of integument (Scale, claw, nail, hair, feather and dentition)	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
2		Structure, functions and derivatives of integument (Scale)	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
3		Structure, functions and derivatives of integument (Claw)	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
4		Structure, functions and derivatives of integument (Nail)	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
5		Structure, functions and derivatives of integument (Hair)	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6

6		Structure, functions and derivatives of integument (Feather)	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
7		Structure, functions and derivatives of integument (Dentition)	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
8		Axial skeleton	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
9		Appendicular skeleton	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
10		Jaw suspensorium	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
11		Visceral arches	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
12		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
13		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
14		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
15		<b>UNIT TEST</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
16	II	Alimentary canal	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
17		Alimentary canal	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
18		Alimentary canal	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
19		Alimentary canal	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
20		Associated glands	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
21		Associated glands	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
22		Associated glands	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
23		Respiration through Skin, gills	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
24		lungs and air sacs	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
25		lungs and air sacs	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6

26		Accessory respiratory organs	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
27		Accessory respiratory organs	LM/ICT/IM/GD	Text books, PPTs	8.1-8.6
28		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
29		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
30		<b>UNIT TEST</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
31	III	General plan of circulation	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
32		Evolution of heart and aortic arches	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
33		Evolution of heart and aortic arches	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
34		Evolution of heart and aortic arches	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
35		Succession of kidney	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
36		Succession of kidney	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
37		Succession of kidney	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
38		Evolution of urinogenital ducts	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
39		Evolution of urinogenital ducts	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
40		Types of mammalian uteri	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
41		Types of mammalian uteri	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
42		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
43		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6
44		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	8.1-8.6

45	<b>UNIT TEST</b>		LM/ICT/IM/GD		Text books, Reference books, PPTs	8.1-8.6
46	IV	Comparative account of brain	LM/ICT/IM/GD		Text books, Reference books, PPTs	8.1-8.6
47		Nervous system	LM/ICT/IM/GD		Text books, Reference books, PPTs	8.1-8.6
48		Spinal cord	LM/ICT/IM/GD		Text books, Reference books, PPTs	8.1-8.6
49		Cranial nerves in mammals	LM/ICT/IM/GD		Text books, Reference books, PPTs	8.1-8.6
50		Classification of receptors	LM/ICT/IM/GD		Text books, PPTs	8.1-8.6
51		Brief account of visual receptors in man	LM/ICT/IM/GD		Text books, Reference books, PPTs	8.1-8.6
52		Brief account of auditory receptors in man	LM/ICT/IM/GD		Text books, Reference books, PPTs	8.1-8.6
53		Chemo receptors	LM/ICT/IM/GD		Text books, Reference books, PPTs	8.1-8.6
54		Chemo receptors	LM/ICT/IM/GD		Text books, PPTs	8.1-8.6
55		Mechano receptors	LM/ICT/IM/GD		Text books, Reference books, PPTs	8.1-8.6
56		Mechano receptors	LM/ICT/IM/GD		Text books, Reference books, PPTs	8.1-8.6
57		<b>REMEDIAL CLASS &amp; REVISION</b>				8.1-8.6
58		<b>UNIT TEST</b>	LM/ICT/IM/GD		Text books, Reference books, PPTs	8.1-8.6
59		<b>QUESTION ANSWER DISCUSSION</b>	LM/ICT/IM/GD		Text books, Reference books, PPTs	8.1-8.6
60		<b>TEST</b>				
<b>Department</b>			ZOOLOGY		ZOOLOGY	
<b>Semester</b>			IV		IV	
<b>Course Name</b>			Core Paper VIII: Comparative Anatomy of Vertebrates		Core Paper VIII: Comparative Anatomy of Vertebrates	
<b>No of Weeks</b>			12		12	
<b>No of Periods/week</b>			01 Practical		01 Practical	
<b>Teacher's Name</b>			Dr. Priti Pragyan Ray		Smt. Sushree Shibancee Dash	Smt. Ananda Rukmini



Periods Available for CC-VIII Practical		4	4	4	
Period	CC-VIII Practical	Topics	Method of Teaching (LM/ICT/IM/DM/GD)	Source of Teaching Materials	Corresponding COs
1		Study of placoid, cycloid and ctenoid scales through permanent slides/photographs	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	8.1-8.6
2		Disarticulated skeleton of Frog	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	8.1-8.6
3		Disarticulated skeleton of Varanus	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	8.1-8.6
4		Disarticulated skeleton of Fowl	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	8.1-8.6
5		Disarticulated skeleton of Rabbit	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	8.1-8.6
6		Carapace and plastron of turtle /tortoise (Photographs, charts etc)	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	8.1-8.6
7		Mammalian skulls: One herbivorous and one carnivorous animal	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	8.1-8.6
8		Study of structure of any two organs (heart, lung, kidney, eye and ear) from video recording (may be included if dissection not permitted)	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	8.1-8.6
9		Project on skeletal modifications in vertebrates (may be included if dissection not permitted)	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	8.1-8.6
10		<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	8.1-8.6
11		<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	8.1-8.6
12		<b>QUESTION-ANSWER DISCUSSION/VIVA-VOCE</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	8.1-8.6



# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 4<sup>TH</sup> SEMESTER

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	IV	IV	IV	IV
<b>Course Name</b>	Core Paper IX Physiology: Life Sustaining Systems	Core Paper IX Physiology: Life Sustaining Systems	Core Paper IX Physiology: Life Sustaining Systems	Core Paper IX Physiology: Life Sustaining Systems
<b>Units Assigned</b>	Unit 2: Physiology of Respiration	Unit 4: Physiology of Heart	Unit 1: Physiology of Digestion	Unit 3: Renal Physiology and Blood
<b>No of Weeks</b>	12	12	12	12
<b>No of Periods/week</b>	05 Theory+01 Practical	04 Theory+ 01 Practical	02 Theory	04 Theory + 01 Practical
<b>Teacher's Name</b>	Dr. Priti Pragyvan Ray	Smt. Sushree Shibance Dash	Sri Suresh Kumar Nayak	Smt. Ananda Rukmini

Total No. of periods: 180 (Theory) + 36 (Lab) = 216

Total No. of Papers in Semester-IV = 03 (CC-VIII, CC-IX, CC-X)

Total No. of Theory Classes Available for CC-IX = 60

<b>Period</b>	<b>Unit</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding Cos</b>
<b>1</b>	<b>I</b>	Structural organization and functions of gastrointestinal tract and associated glands	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>2</b>		Structural organization and functions of gastrointestinal tract and associated glands	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>3</b>		Structural organization and functions of gastrointestinal tract and associated glands	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>4</b>		Structural organization and functions of gastrointestinal tract and associated glands	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>5</b>		Mechanical and chemical digestion of food	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>6</b>		Mechanical and chemical digestion of food	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>7</b>		Absorptions of carbohydrates, lipids	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6

					PPTs	
<b>8</b>		Absorptions of proteins, water, minerals and vitamins	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>9</b>		Hormonal control of secretion of enzymes in Gastrointestinal tract.	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>10</b>		Hormonal control of secretion of enzymes in Gastrointestinal tract.	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>11</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>12</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>13</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>14</b>		<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>15</b>		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>16</b>	<b>II</b>	Histology of trachea and lung	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>17</b>		Histology of trachea and lung	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>18</b>		Mechanism of respiration, Pulmonary ventilation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>19</b>		Respiratory volumes and capacities	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>20</b>		Transport of oxygen and carbon dioxide in blood	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>21</b>		Transport of oxygen and carbon dioxide in blood	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>22</b>		Respiratory pigments	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>23</b>		Dissociation curves and the factors influencing it	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>24</b>		Dissociation curves and the factors influencing it	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>25</b>		Carbon monoxide poisoning	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	
<b>26</b>		Control of respiration	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6	

<b>27</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>28</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>29</b>		<b>REMDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>30</b>		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>31</b>	<b>III</b>	Structure of kidney and its functional unit	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>32</b>		Mechanism of urine formation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>33</b>		Regulation of water balance	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>34</b>		Regulation of acid-base balance	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>35</b>		Components of blood and their functions	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>36</b>		Structure and functions of haemoglobin haemostasis	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>37</b>		Haemopoiesis	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>38</b>		Blood clotting system	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>39</b>		Blood groups: Rh factor, ABO and MN	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>40</b>		Blood groups: Rh factor, ABO and MN	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>41</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>42</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>43</b>		<b>REMDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>44</b>		<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>45</b>		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
<b>46</b>	<b>IV</b>	Structure of mammalian heart	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6

47	Coronary circulation	LM/ICT/IM/DM/GD	PPTs Text books, Reference books, PPTs	9.1-9.6
48	Structure and working of conducting myocardial fibers	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
49	Structure and working of conducting myocardial fibers	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
50	Origin and conduction of cardiac impulses Cardiac cycle	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
51	Origin and conduction of cardiac impulses Cardiac cycle	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
52	Cardiac output and its regulation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
53	Frank-Starling Law of the heart	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
54	Nervous and chemical regulation of heart rate	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
55	Electrocardiogram	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
56	Blood pressure and its regulation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
57	<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
58	<b>REMDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	9.1-9.6
59	<b>UNIT TEST</b>		Text books, Reference books, PPTs	9.1-9.6
60	<b>CLASS TEST</b>		Text books, Reference books, PPTs	9.1-9.6

Department	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	V	V	V	V
<b>Course Name</b>	Core Paper IX Physiology: Life Sustaining Systems (Practical)	Core Paper IX Physiology: Life Sustaining Systems (Practical)	Core Paper IX Physiology: Life Sustaining Systems (Practical)	Core Paper IX Physiology: Life Sustaining Systems (Practical)
<b>No of Weeks</b>	12	12	12	12
<b>No of Periods/week</b>	01 Practical	01 Practical	01 Practical	01 Practical
<b>Teacher's Name</b>	Dr. Priti Pragyan Ray	Smt. Sushree Shibancee Dash	Smt. Ananda Rukmini	Smt. Ananda Rukmini
<b>Periods Available for CC-IX Practical</b>	4	4	4	4
<b>Period</b>	<b>CC-IX Practical</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/GD)</b>	<b>Source of Teaching Materials</b>
1		Determination of ABO Blood group	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
2		Enumeration of red blood cells using haemocytometer	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
3		Enumeration of white blood cells using haemocytometer	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
4		Estimation of haemoglobin using Sahli's haemoglobinometer	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
5		Preparation of haemin and haemochromogen crystals	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
6		Recording of blood pressure using a sphygmomanometer	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
7		Examination of sections of mammalian slides: oesophagus, stomach, duodenum, ileum	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
8		rectum liver, trachea, lung, kidney	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
9		<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
10		<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
11		<b>Question-Answer Discussion</b>	ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
12		<b>Viva-voce</b>		Text books, Reference books, PPTs, Lab Manual
				9.1-9.6

# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 4<sup>TH</sup> SEMESTER

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	IV	IV	IV	IV
<b>Course Name</b>	Core Paper X Biochemistry of Metabolic Processes	Core Paper X Biochemistry of Metabolic Processes	Core Paper X Biochemistry of Metabolic Processes	Core Paper X Biochemistry of Metabolic Processes
<b>Units Assigned</b>	Unit 1: Overview of Metabolism	Unit 3: Lipid and protein Metabolism	Unit 2: Carbohydrate Metabolism	Unit 4: Oxidative Phosphorylation
<b>No of Weeks</b>	12	12	12	12
<b>No of Periods/week</b>	05 Theory+01 Practical	04 Theory+ 01 Practical	02 Theory	04 Theory + 01 Practical
<b>Teacher's Name</b>	Dr. Priti Pragyan Ray	Smt. Sushree Shibance Dash	Sri Sareesh Kumar Nayak	Smt. Ananda Rukmini

Total No. of periods: 180 (Theory) + 36 (Lab) = 216

Total No. of Papers in Semester-IV = 03 (CC-VIII, CC-IX, CC-X)

Total No. of Theory Classes Available for CC-VIII = 60

<b>Period</b>	<b>Unit</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding COs</b>
1	I	Catabolism vs Anabolism, Stages of catabolism	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
2		Catabolism vs Anabolism, Stages of catabolism	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
3		Compartmentalization of metabolic pathways	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
4		Compartmentalization of metabolic pathways	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
5		Shuttle systems and membrane transporters	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
6		Shuttle systems and membrane transporters	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6



7		ATP as "Energy Currency of cell	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
8		ATP as "Energy Currency of cell	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
9		coupled reactions; Use of reducing equivalents and cofactors	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
10		coupled reactions; Use of reducing equivalents and cofactors	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
11		Intermediary metabolism and regulatory mechanisms	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
12		Intermediary metabolism and regulatory mechanisms	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
13		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
14		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
15		<b>UNIT TEST</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
16	II	Sequence of reactions and regulation of glycolysis	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
17		Sequence of reactions and regulation of glycolysis	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
18		Citric acid cycle	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
19		Citric acid cycle	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
20		Phosphate pentose pathway	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
21		Phosphate pentose pathway	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
22		Gluconeogenesis	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
23		Gluconeogenesis	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
24		Glycogenolysis	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
25		Glycogenolysis	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
26		Glycogenolysis	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6

27		Glycogenesis		LM/ICT/IM/GD		PPTs	10.1-10.6
28		<b>DOUBT CLEARING CLASS</b>		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
29		<b>REMEDIAL CLASS &amp; REVISION</b>		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
30		<b>UNIT TEST</b>		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
31	III	$\beta$ -oxidation and omega -oxidation of saturated fatty acids with even and odd number of carbon atoms		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
32		$\beta$ -oxidation and omega -oxidation of saturated fatty acids with even and odd number of carbon atoms		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
33		$\beta$ -oxidation and omega -oxidation of saturated fatty acids with even and odd number of carbon atoms		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
34		Biosynthesis of palmitic acid		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
35		Biosynthesis of palmitic acid		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
36		Ketogenesis		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
37		Transamination, Deamination		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
38		Catabolism of amino acids		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
39		Urea cycle		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
40		Fate of C-skeleton of Glucogenic and Ketogenic amino acids		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
41		Fate of C-skeleton of Glucogenic and Ketogenic amino acids		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
42		<b>DOUBT CLEARING CLASS</b>		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6
43		<b>DOUBT CLEARING CLASS</b>		LM/ICT/IM/GD		Text books, Reference books, PPTs	10.1-10.6

44		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
45		<b>UNIT TEST</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
46	IV	Redox systems	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
47		Redox systems	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
48		Redox systems	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
49		Review of mitochondrial respiratory chain	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
50		Review of mitochondrial respiratory chain	LM/ICT/IM/GD	Text books, PPTs	10.1-10.6
51		Inhibitors and un-couplers of Electron Transport System	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
52		Inhibitors and un-couplers of Electron Transport System	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
53		Inhibitors and un-couplers of Electron Transport System	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
54		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, PPTs	10.1-10.6
55		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
56		<b>REMEDIAL CLASS &amp; REVISION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
57		<b>REMEDIAL CLASS &amp; REVISION</b>			10.1-10.6
58		<b>UNIT TEST</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
59		<b>QUESTION ANSWER DISCUSSION</b>	LM/ICT/IM/GD	Text books, Reference books, PPTs	10.1-10.6
60		<b>TEST</b>			
<b>Department</b>		ZOOLOGY	ZOOLOGY	ZOOLOGY	
<b>Semester</b>		IV	IV	IV	
<b>Course Name</b>		Core Paper X Biochemistry of Metabolic Processes	Core Paper X Biochemistry of Metabolic Processes	Core Paper X Biochemistry of Metabolic Processes	
<b>No of Weeks</b>		12	12	12	
<b>No of Periods/week</b>		01 Practical	01 Practical	01 Practical	

Teacher's Name		Dr. Priti Pragyan Ray		Smt. Sushree Shibance Dash		Smt. Ananda Rukmini	
Periods Available for CC-X Practical		4		4		4	
Period	CC-X Practical	Topics	Method of Teaching (LM/ICT/IM/DM/GD)	Source of Teaching Materials	Corresponding COs		
1		Estimation of total protein in given solutions	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	10.1-10.6		
2		Detection of SGOT and SGPT or GST and GSH in serum/ tissue	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	10.1-10.6		
3		Detection of SGOT and SGPT or GST and GSH in serum/ tissue	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	10.1-10.6		
4		To study the enzymatic activity of Trypsin/ Lipase	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	10.1-10.6		
5		To study the enzymatic activity of Trypsin/ Lipase	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	10.1-10.6		
6		To perform the Acid and Alkaline phosphatase assay from serum/ tissue	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	10.1-10.6		
7		To perform the Acid and Alkaline phosphatase assay from serum/ tissue	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	10.1-10.6		
8		Dry Lab (Virtual): To trace the labelled C atoms of Acetyl-CoA till they evolve as CO <sub>2</sub> in the TCA cycle <b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	10.1-10.6		
9		<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	10.1-10.6		
10		<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	10.1-10.6		
11		<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	10.1-10.6		
12		<b>QUESTION-ANSWER</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual, Museum specimen, Microscopic Slides	10.1-10.6		

		<b>DISCUSSION/VIVA-VOCE</b>		PPTs, Lab Manual, Museum specimen, Microscopic Slides	
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# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 4<sup>TH</sup> SEMESTER GE-IV

Department	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	IV	IV	IV	IV	IV
<b>Course Name</b>	Cell and Molecular Biology	Cell and Molecular Biology	Cell and Molecular Biology	Cell and Molecular Biology	Cell and Molecular Biology
<b>Units Assigned</b>	4	1	3	1	1
<b>No of Weeks</b>	12	12	12	12	12
<b>No of Periods/week</b>	01 Theory	02 Theory	01 Theory	01 Theory + 01 Practical	01 Theory
<b>Teacher's Name</b>	Dr. Priti Pragyay Ray	Smt. Sushree Shibance Dash	Sri Suresh Kumar Nayak	Smt. Ananda Rukmini	Smt. Ananda Rukmini

Total No. of periods: 60 (Theory) + 12 (Lab) = 72

Total No. of G.E. Papers in Semester-IV = 01 (GE-IV)

Total No. of Theory Classes Available for GE-IV = 60

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM/GD)	Source of Teaching Materials	Corresponding Cos
1	I	Unit I: Cells and Plasma Membrane Prokaryotic and Eukaryotic cells	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
2		Various models of plasma membrane	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
3		Transport across membranes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
4		The Endoplasmic Reticulum	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
5		The Endoplasmic Reticulum	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
6		Golgi apparatus	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
7		Golgi apparatus	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
8		Lysosomes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
9		Structure and function of mitochondria	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
10		Structure and function of mitochondria	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
11		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
12		<b>REMEDIATION CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
13		<b>REMEDIATION CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
14		<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6

15		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
16	<b>II</b>	Unit 2: Nucleus, cell division Ultra structure of nucleus	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
17		Ultra structure of nucleus	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
18		Ultra structure of nucleus	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
19		Mitosis	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
20		Mitosis	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
21		Meiosis	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
22		Meiosis	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
23		Cell cycle and its regulation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
24		Cell cycle and its regulation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
25		Cell cycle and its regulation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
26		Cell cycle and its regulation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
27		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
28		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
29		<b>REMIDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
30		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
31	<b>III</b>	Unit 3: Nucleic Acids and DNA Replication Salient features of DNA double helix	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
32		Watson and Crick model of DNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
33		Structure of RNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
34		Structure of RNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
35		Trna	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
36		tRNA	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
37		DNA Replication in prokaryotes; Mechanism of DNA replication	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
38		DNA Replication in eukaryotes; ; Mechanism of DNA replication	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
39		DNA Replication in eukaryotes; ; Mechanism of DNA replication	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
40		DNA Replication in eukaryotes; ; Mechanism of DNA replication	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
41		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
42		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
43		<b>REMIDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
44		<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6

<b>45</b>	<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>46</b>	Unit 4: Transcription and Translation Mechanism of transcription in prokaryotes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>47</b>	Mechanism of transcription in prokaryotes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>48</b>	Mechanism of transcription in prokaryotes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>49</b>	Mechanism of transcription in Eukaryotes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>50</b>	Mechanism of transcription in Eukaryotes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>51</b>	Mechanism of transcription in Eukaryotes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>52</b>	<b>Translation in prokaryotes</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>53</b>	<b>Translation in prokaryotes</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>54</b>	<b>Translation in eukaryotes</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>55</b>	<b>Translation in eukaryotes</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>56</b>	<b>Doubt Clearing Class</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>57</b>	<b>Remedial Class</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>58</b>	<b>Remedial Class</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>59</b>	<b>Unit Test</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6
<b>60</b>	<b>Test</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	GE4.1-GE.6

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	IV		
<b>Course Name</b>	Cell and Molecular Biology		
<b>No of Weeks</b>	12		
<b>No of Periods/week</b>	01 Practical		
<b>Teacher's Name</b>	Sri Suresh Kumar Nayak		
<b>Periods Available for GE-IV Practical</b>	12		
<b>Period</b>	<b>GE-IV Practical</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>
1		DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
2		DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual
			<b>Corresponding Cos</b>
			GE4.1-GE.6
			GE4.1-GE.6



3	Study of mitosis and meiosis through squashing in Grasshopper	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE4.1-GE.6
4	Demonstration of transport through cell membrane	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE4.1-GE.6
5	Preparation of DNA and RNA models	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE4.1-GE.6
6	Preparation of DNA and RNA models	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE4.1-GE.6
7	Demonstration of protein synthesis through models	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE4.1-GE.6
8	<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE4.1-GE.6
9	<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE4.1-GE.6
10	<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE4.1-GE.6
11	<b>Question-Answer Discussion</b>	ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	GE4.1-GE.6
12	<b>Viva-voce</b>			GE4.1-GE.6

# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 6<sup>TH</sup> SEMESTER

Department	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	VI	VI	VI	VI	VI
<b>Course</b>	Core Paper XIII: Developmental Biology	Core Paper XIII: Developmental Biology	Core Paper XIII: Developmental Biology	Core Paper XIII: Developmental Biology	Core Paper XIII: Developmental Biology
<b>Unit</b>	1, 3, 4	1, 4	1, 4	1, 3, 4	1, 3, 4
<b>No of Weeks</b>	12	12	12	12	12
<b>No of Periods/week</b>	05 Theory + 2 Practical	06 Theory + 1 Practical	06 Theory + 1 Practical	03 Theory	03 Theory + 1 Practical
<b>Teacher's Name</b>	Dr. Priti Pragyvan Ray	Smt. Sushree Shibance Dash	Smt. Sushree Shibance Dash	Sri Saresh Kumar Nayak	Smt. Ananda Rukmini

Total No. of periods: 240 (Theory) + 48 (Lab) = 288

Total No. of Papers in Semester-VI = 04 (CC-XIII, CC-XIV, DSE-III, DSE-IV)

Total No. of Theory Classes Available for CC-XIII = 240/4 = 60

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM/GD)	Source of Teaching Materials	Corresponding Cos
<b>1</b>	<b>I</b>	Unit 1: Introduction to Developmental Biology, Gametogenesis & Fertilization Historical perspective and basic concepts	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>2</b>		Phases of development	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>3</b>		Cell-Cell interaction	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>4</b>		Pattern formation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>5</b>		Differentiation and growth	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>6</b>		Differential gene expression	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>7</b>		Cytoplasmic determinants and asymmetric cell division	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6

<b>8</b>		Gametogenesis- Spermatogenesis, Oogenesis	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>9</b>		Gametogenesis- Oogenesis	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>10</b>		Types of eggs, Egg membranes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>11</b>		Fertilization (External and Internal)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>12</b>		Changes in gametes, Blocks to polyspermy	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>13</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>14</b>		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>15</b>		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>16</b>	<b>II</b>	<b>Unit 2: Early Embryonic Development</b> Cleavage: Planes and patterns of cleavage	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>17</b>		Types of Blastula	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>18</b>		Types of Blastula	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>19</b>		Fate maps (including Techniques)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>20</b>		Fate maps (including Techniques)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>21</b>		Early development of frog up to gastrulation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>22</b>		Early development of frog up to gastrulation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>23</b>		Early development of chick up to gastrulation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>24</b>		Early development of chick up to gastrulation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>25</b>		Early development of chick up to gastrulation	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>26</b>		Embryonic induction and organizers	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>27</b>		Embryonic induction and organizers	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6

28		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	books, PPTs	13.1-13.6
29		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
30		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
31	<b>III</b>	<b>Unit 3: Late Embryonic Development</b> Fate of Germ Layers	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
32		Fate of Germ Layers	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
33		Fate of Germ Layers	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
34		Extra-embryonic membranes in birds	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
35		Extra-embryonic membranes in birds	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
36		Extra-embryonic membranes in birds	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
37		Implantation of embryo in humans	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
38		Placenta (Structure, types and functions of placenta)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
39		Placenta (Structure, types and functions of placenta)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
40		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
41		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
42		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
43		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
44		<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
45		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
46	<b>IV</b>	<b>Unit 4: Post Embryonic Development &amp; Implications of Developmental Biology</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6

		Metamorphosis: Changes, hormonal regulations in amphibians			
<b>47</b>		Metamorphosis: Changes, hormonal regulations in amphibians	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>48</b>		Metamorphosis: Changes, hormonal regulations in insects	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>49</b>		Regeneration: Modes of regeneration, epimorphosis, morphallaxis and compensatory regeneration (with one example each)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>50</b>		Regeneration: Modes of regeneration, epimorphosis, morphallaxis and compensatory regeneration (with one example each)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>51</b>		Ageing: Concepts and Theories	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>52</b>		Teratogenesis: Teratogenic agents and their effects on embryonic development	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>53</b>		Teratogenesis: Teratogenic agents and their effects on embryonic development	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>54</b>		In vitro fertilization	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>55</b>		Amniocentesis	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>56</b>		Stem cell (ESC)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>57</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>58</b>		<b>REMDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	13.1-13.6
<b>59</b>		<b>UNIT TEST</b>		Text books, Reference books, PPTs	13.1-13.6
<b>60</b>		<b>CLASS TEST</b>		Text books, Reference books, PPTs	13.1-13.6

<b>Department</b>	ZOOLOGY					
<b>Semester</b>	VI					
<b>Course Name</b>	Core Paper XIII: Developmental Biology					
<b>No of Weeks</b>	12					
<b>No of Periods/week</b>	01 Practical					
<b>Teacher's Name</b>	Sushree Shibancee Dash					
<b>Periods Available for CC-XIII Practical</b>	4					
<b>Period</b>	<b>CC-XIII Practical</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding COs</b>	
1		Study of whole mounts and sections of developmental stages of frog through permanent slides: Cleavage stages, blastula, gastrula, neurula, tail-bud stage, tadpole (external and internal gill stages).	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	13.1-13.6	
2		Study of whole mounts and sections of developmental stages of frog through permanent slides: Cleavage stages, blastula, gastrula, neurula, tail-bud stage, tadpole (external and internal gill stages).	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	13.1-13.6	
3		Study of whole mounts of developmental stages of chick through permanent slides: Primitive streak (13 and 18 hours), 21, 24, 28, 33, 36, 48, 72, and 96 hours of incubation (Hamilton and Hamburger stages).	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	13.1-13.6	
4		Study of whole mounts of developmental stages of chick through permanent slides: Primitive streak (13 and 18 hours), 21, 24, 28, 33, 36, 48, 72, and 96 hours of incubation (Hamilton and Hamburger stages).	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	13.1-13.6	
5		Study of the developmental stages and life cycle of Drosophila from stock culture.	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	13.1-13.6	
6		Study of different sections of placenta (photomicrograph/ slides).	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	13.1-13.6	

7	Project report on Drosophila culture/chick embryo development.	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	13.1-13.6
8	Study of developmental stages by raising chick embryo in the laboratory	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	13.1-13.6
9	<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	13.1-13.6
10	<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	13.1-13.6
11	<b>Question-Answer Discussion</b>	ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	13.1-13.6
12	<b>Viva-voce</b>			13.1-13.6

# SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

### UG 6<sup>TH</sup> SEMESTER

Department	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	VI	VI	VI	VI	VI
<b>Course</b>	Core Paper XIV: Evolutionary Biology	Core Paper XIV: Evolutionary Biology	Core Paper XIV: Evolutionary Biology	Core Paper XIV: Evolutionary Biology	Core Paper XIV: Evolutionary Biology
<b>Unit</b>	1, 3	1, 3, 4	4	3	3
<b>No of Weeks</b>	12	12	12	12	12
<b>No of Periods/week</b>	05 Theory + 2 Practical	06 Theory + 1 Practical	03 Theory	03 Theory + 1 Practical	03 Theory + 1 Practical
<b>Teacher's Name</b>	Dr. Priti Pragyay Ray	Smt. Sushree Shibance Dash	Sri Suresh Kumar Nayak	Smt. Ananda Rukmini	Smt. Ananda Rukmini

Total No. of periods: 240 (Theory) + 48 (Lab) = 288

Total No. of Papers in Semester-VI = 04 (CC-XIII, CC-XIV, DSE-III, DSE-IV)

Total No. of Theory Classes Available for CC-XIV = 240/4 = 60

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM/GD)	Source of Teaching Materials	Corresponding Cos
<b>1</b>	<b>I</b>	<b>Unit 1: Theories, Evidences of Evolution and Extinction</b> Life's Beginnings: Chemogeny, RNA world, Biogeny	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>2</b>		Origin of photosynthesis, Evolution of eukaryotes.	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>3</b>		Historical review of evolutionary concept: Lamarckism, Darwinism, Neo- Darwinism.	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>4</b>		Historical review of evolutionary concept: Lamarckism, Darwinism, Neo- Darwinism.	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>5</b>		Evidences of Evolution: Fossil record (types of fossils, transitional forms, geological time scale	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>6</b>		Evidences of Evolution: Fossil record (types of fossils, transitional forms, geological time scale	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>7</b>		Evolution of horse	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6



<b>8</b>	Sources of variations: Heritable variations and their role in evolution.	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>9</b>	Sources of variations: Heritable variations and their role in evolution.	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>10</b>	Extinctions, Back ground and mass extinctions (causes and effects)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>11</b>	Extinctions, Back ground and mass extinctions (causes and effects)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>12</b>	Detailed example of K-T extinction	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>13</b>	<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>14</b>	<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>15</b>	<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>16</b>	<b>II</b> <b>Unit 2: Process of Evolutionary changes</b> Population genetics: Hardy-Weinberg Law (statement and derivation of equation, application of law to human Population);;	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>17</b>	Population genetics: Hardy-Weinberg Law (statement and derivation of equation, application of law to human Population)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>18</b>	Evolutionary forces upsetting H-W equilibrium	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>19</b>	Natural selection (concept of fitness, selection coefficient,	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>20</b>	derivation of one unit of selection for a dominant allele, genetic load,	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>21</b>	mechanism of working, types of selection, density-dependent selection,	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>22</b>	heterozygous superiority, kin selection,	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>23</b>	adaptive resemblances, sexual selection).	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>24</b>	Genetic Drift (mechanism, founder's effect, bottleneck phenomenon)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6

25		Genetic Drift (mechanism, founder's effect, bottleneck phenomenon)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
26		Role of Migration and Mutation in changing allele frequencies.	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
27		Role of Migration and Mutation in changing allele frequencies.	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
28		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
29		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
30		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
31	<b>III</b>	<b>Unit 3: Species Concept And Speciation</b> Product Of Evolution: Micro Evolutionary Changes	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
32		Inter-Population Variations	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
33		Inter-Population Variations	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
34		Clines, Races, Species Concept	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
35		Isolating Mechanisms	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
36		Isolating Mechanisms	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
37		Modes Of Speciation—Allopatric, Sympatric, Parapatric.	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
38		Adaptive Radiation / Macroevolution (Exemplified By Galapagos Finches)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
39		Adaptive Radiation / Macroevolution (Exemplified By Galapagos Finches)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
40		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
41		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
42		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
43		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6

<b>44</b>		<b>CLASS PRESENTATION/PEER LEARNING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>45</b>		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>46</b>	<b>IV</b>	<b>Unit 4: Concept of Origin and Evolution of man</b> Origin and evolution of man	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>47</b>		Origin and evolution of man	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>48</b>		Unique hominin characteristics contrasted with primate characteristics	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>49</b>		Primate phylogeny from Dryopithecus leading to <i>Homo sapiens</i>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>50</b>		Molecular analysis of human origin	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>51</b>		Molecular analysis of human origin	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>52</b>		Phylogenetic trees	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>53</b>		Multiple sequence alignment	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>54</b>		Multiple sequence alignment	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>55</b>		Construction and interpretation of phylogenetic trees	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>56</b>		Construction and interpretation of phylogenetic trees	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>57</b>		<b>DOUBT CLEARING</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>58</b>		<b>REMDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	14.1-14.6
<b>59</b>		<b>UNIT TEST</b>		Text books, Reference books, PPTs	14.1-14.6
<b>60</b>		<b>CLASS TEST</b>		Text books, Reference books, PPTs	14.1-14.6

<b>Department</b>	ZOOLOGY				
<b>Semester</b>	VI				
<b>Course Name</b>	Core Paper XIV: Evolutionary Biology				
<b>No of Weeks</b>	12				
<b>No of Periods/week</b>	01				
<b>Teacher's Name</b>	Dr. Priti Pragyan Raay				
<b>Periods Available for CP-XIV Practical</b>	12				
<b>Period</b>	<b>CP-XIV Practical</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding COs</b>
1		Study of fossils from models/ pictures	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	14.1-14.6
2		Study of homology and analogy from suitable specimens	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	14.1-14.6
3		Study and verification of Hardy-Weinberg Law by chi square analysis	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	14.1-14.6
4		Demonstration of role of natural selection and genetic drift in changing allele frequencies using simulation studies	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	14.1-14.6
5		Graphical representation and interpretation of data of height/ weight of a sample of 100 humans in relation to their age and sex.	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	14.1-14.6
6		Construction of phylogenetic trees with the help of bioinformatics tools (Clustal X) and its interpretation.	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	14.1-14.6
7		Construction of phylogenetic trees with the help of bioinformatics tools ( Phylip) and its interpretation.	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	14.1-14.6
8		Construction of phylogenetic trees with the help of bioinformatics tools (NJ) and its interpretation.	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	14.1-14.6
9,10,11		<b>REMEDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	14.1-14.6

12	Viva-voce	14.1-14.6
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## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

### TEACHING PLAN 2022-23

#### UG 6<sup>TH</sup> SEMESTER

Department	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
Semester	VI	VI	VI	VI	VI
Course	Discipline Specific Elective Paper-III Fish and Fisheries	Discipline Specific Elective Paper-III Fish and Fisheries	Discipline Specific Elective Paper-III Fish and Fisheries	Discipline Specific Elective Paper-III Fish and Fisheries	Discipline Specific Elective Paper-III Fish and Fisheries
Unit		Unit 1: Systematics, Morphology and Physiology	Unit 3: Aquaculture	Unit 4: Fish Pathology and Transgenesis	
No of Weeks	12	12	12	12	
No of Periods/week	05 Theory + 2 Practical	06 Theory + 1 Practical	03 Theory	03 Theory + 1 Practical	
Teacher's Name	Dr. Priti Pragyvan Ray	Smt. Sushree Shibance Dash	Sri Suresh Kumar Nayak	Smt. Ananda Rukmini	

Total No. of periods: 240 (Theory) + 48 (Lab) = 288

Total No. of Papers in Semester-VI = 04 (CC-XIII, CC-XIV, DSE-III, DSE-IV)

Total No. of Theory Classes Available for DSE-III = 240/4 = 60

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM/GD)	Source of Teaching Materials	Corresponding Cos
1	I	Systematic classification of fishes (upto classes)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
2		Systematic classification of fishes (upto classes)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
3		Types of fins and their modification	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
4		Locomotion in fishes: Hydrodynamics	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
5		Types of scales, Use of scales in classification and determination of age of fish	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
6		Gills and gas exchange	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6

7		Swim bladder	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
8		Reproductive strategies(Special reference to Indian fishes)	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
9		Electric organs	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
10		Bioluminescence	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
11		Mechanoreceptors	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
12		Schooling; Migration	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
13		Schooling; Migration	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
14		<b>REMEDIAL CLASS/REVISION</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
15		<b>UNIT TEST</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
16	<b>II</b>	Unit 2: Fisheries Inland fisheries	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
17		Inland fisheries	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
18		Marine fisheries	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
19		Marine fisheries	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
20		Environmental factors influencing the seasonal variation in fish	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
21		Fishing crafts and Gears	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
22		Depletion of Fisheries resources	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
23		Fisheries laws and regulations	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
24		Fisheries laws and regulations	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
25		<b>DOUBT CLEARING CLASS</b>	LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6

						books, PPTs		
<b>26</b>		<b>DOUBT CLEARING CLASS</b>		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>27</b>		<b>REMDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>28</b>		<b>REMDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>29</b>		<b>REMDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>30</b>		<b>UNIT TEST</b>		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>31</b>	<b>III</b>	Sustainable aquaculture		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>32</b>		Extensive, semi-intensive and intensive culture of fish		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>33</b>		Polyculture		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>34</b>		Composite fish culture		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>35</b>		Brood stock management		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>36</b>		Induced breeding of fish		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>37</b>		Induced breeding of fish		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>38</b>		Management of fin fish hatcheries		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>39</b>		Preparation and maintenance of fish aquarium		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>40</b>		Factors affecting aquaculture		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>41</b>		<b>DOUBT CLEARING CLASS</b>		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>42</b>		<b>DOUBT CLEARING CLASS</b>		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>43</b>		<b>REMDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	
<b>44</b>		<b>CLASS PRESENTATION/PEER LEARNING</b>		LM/ICT/IM/DM/GD		Text books, Reference books, PPTs	DSE3.1-DSE3.6	

<b>45</b>		<b>UNIT TEST</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>46</b>	<b>IV</b>	Fish diseases: bacterial, viral and parasites		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>47</b>		Fish diseases: bacterial, viral and parasites		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>48</b>		Fish diseases: bacterial, viral and parasites		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>49</b>		Preservation, diagnosis and treatment		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>50</b>		Preservation, diagnosis and treatment		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>51</b>		Processing of harvested fish		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>52</b>		Processing of harvested fish		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>53</b>		Fishery byproducts		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>54</b>		Fishery byproducts		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>55</b>		Transgenic fish, zebrafish as a model organism in research.		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>56</b>		Transgenic fish, zebrafish as a model organism in research.		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>57</b>		<b>DOUBT CLEARING</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>58</b>		<b>REMDIAL CLASS/REVISION</b>		LM/ICT/IM/DM/GD	Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>59</b>		<b>UNIT TEST</b>			Text books, Reference books, PPTs	DSE3.1-DSE3.6
<b>60</b>		<b>CLASS TEST</b>			Text books, Reference books, PPTs	DSE3.1-DSE3.6



<b>Department</b>	ZOOLOGY				
<b>Semester</b>	VI				
<b>Course Name</b>	Discipline Specific Elective Paper-III Fish and Fisheries				
<b>No of Weeks</b>	12				
<b>No of Periods/week</b>	01				
<b>Teacher's Name</b>	Smt. Ananda Rukmini				
<b>Periods Available for DSE-III Practical</b>	12				
<b>Period</b>	<b>DSE-III Practical</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM/GD)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding COs</b>
1		Study of Petromyzon, Myxine, Pristis, Chimaera, Exocoetus, Hippocampus, Gambia, Labeo, Heteropneustes, Anabas	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE3.1-DSE3.6
2		Study of different types of scales(Through permanent slides and photographs)	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE3.1-DSE3.6
3		Study of crafts and gears used in fisheries. Water quality criteria for aquaculture:	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE3.1-DSE3.6
4		Assessment of pH, conductivity, total solids and total dissolve solids.	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE3.1-DSE3.6
5		Study of air breathing organs in Channa, Heteropneustes, Anabas and Clarias.	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE3.1-DSE3.6
6		Demonstration of induced breeding in fishes(Virtual).	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE3.1-DSE3.6
7		Demonstration of parental care in fishes(Virtual).	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE3.1-DSE3.6
8		Project report on a visit to any fish farm/ pisciculture unit/ zebrafish rearing lab	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE3.1-DSE3.6
9,10,11		<b>REMIDIAL CLASS/REVISION</b>	DM/LM/ICT/IM/GD	Text books, Reference books, PPTs, Lab Manual	DSE3.1-DSE3.6
12		<b>Viva-voce</b>			DSE3.1-DSE3.6

## UG 6<sup>TH</sup> SEMESTER

<b>Department</b>	ZOOLOGY	ZOOLOGY	ZOOLOGY	ZOOLOGY
<b>Semester</b>	VI	VI	VI	VI
<b>Course</b>	DSE-IV: PROJECT	DSE-IV: PROJECT	DSE-IV: PROJECT	DSE-IV: PROJECT
<b>Title of the Project</b>	Studies on catalase activity in Diapausing Sukinda ecorace of tropical Tsar silkworm of <i>Anheraea mylitta</i> Drury	Studies on catalase activity in Diapausing Boudh ecorace of tropical Tsar silkworm of <i>Anheraea mylitta</i> Drury	Studies on catalase activity in Diapausing Boudh ecorace of tropical Tsar silkworm of <i>Anheraea mylitta</i> Drury	Studies on the stimulation of protein content in Diapausing Sukinda ecorace of tropical Tsar silkworm of <i>Anheraea mylitta</i> Drury
<b>No of Weeks</b>	12	12	12	12
<b>No of Periods/week</b>	05 Theory + 2 Practical	06 Theory +1 Practical	06 Theory +1 Practical	03 Theory +1 Practical
<b>Teacher's Name</b>	Dr. Priti Pragyay Ray	Smt. Sushree Shibance Dash	Smt. Sushree Shibance Dash	Sri Saresh Kumar Nayak

Total No. of periods: 240 (Theory) + 48 (Lab) = 288

Total No. of Papers in Semester-VI = 04 (CC-XIII, CC-XIV, DSE-III, DSE-IV)

Total No. of Theory Classes Available for DSE-IV = 240/4 = 60

Sl No.	Activity	Method of Conducting Project Work(LM/ICT/IM/DM/GD/Survey/Lab work/Experiment)	Source of Teaching Materials	Corresponding Cos
1-5	Survey of literature and background work	LM/ICT/GD/Survey/Lab work/Experiment	LM/ICT	DSE4.1-DSE4.6
6-30	Experiments	LM/ICT/GD/Survey/Lab work/Experiment	LM/ICT	DSE4.1-DSE4.6
31-40	Result analysis	LM/ICT/GD/Survey/Lab work/Experiment	LM/ICT	DSE4.1-DSE4.6
41-45	Discussion on findings/review of work	LM/ICT/GD/Survey/Lab work/Experiment	LM/ICT	DSE4.1-DSE4.6
46-50	Writing up the dissertation	LM/ICT/GD/Survey/Lab work/Experiment	LM/ICT	DSE4.1-DSE4.6
51-55	Correction of the write up	LM/ICT/GD/Survey/Lab work/Experiment	LM/ICT	DSE4.1-DSE4.6
56-	Final Submission	LM/ICT/GD/Survey/Lab	LM/ICT	DSE4.1-DSE4.6

58		<b>work/Experiment</b>			
59	Mock viva	<b>LM/ICT/GD/Survey/Lab work/Experiment</b>		<b>LM/ICT</b>	DSE4.1-DSE4.6
60	Presentation and viva voce	<b>LM/ICT/GD/Survey/Lab work/Experiment</b>		<b>LM/ICT</b>	DSE4.1-DSE4.6

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	ODIA
Course Name	HC - 102
Semester	I
No of Weeks	4
No of Periods/week	4
Teacher's Name	DR. CHITTARANJAN PANDA

Total No. of periods: = 16

Week	Period	Unit	Topics	Method of Teaching (LM/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	UNIT-1	iùjòZýue ~ém aòbùR^	LM/IM	Text books, Reference books	CO1
	2		ACùeù_ùe ^aRùMeYe AZòjùì, bùeZ Zjù IWògùe Zù'e àiùe	LM/IM	Text books, Reference books	CO1
	3		^aRùMeY_àiùeùe bùhù iùjòZýe bicòKù	LM/IM	Text books, Reference books	CO1
	4		@ùjé^òK ~émE iùcùRòK_éÁbicò	LM/IM	Text books, Reference books	CO1
2	1		@ùjé^òK ~émE iùcùRòK_éÁbicò	LM/IM	Text books, Reference books	CO1
	2		@ùjé^òK ~émE eùR^ùZòK_éÁbicò	LM/IM	Text books, Reference books	CO1
	3		@ùjé^òK ~émE eùR^ùZòK_éÁbicò	LM/IM	Text books, Reference books	CO1
	4		@ùjé^òK ~émE iùöÁéZò_éÁbicò	LM/IM	Text books, Reference books	CO1
3	1		@ùjé^òK ~émE ùKùZK aògòÁ NUYúakù - ^ìZ^ gòìù^ùZò, ùVý_éÉK	LM/IM	Text books, Reference books	CO1

				-âYd^, ^@u lèbòðl, i'ù\Zà, -âKùg^, bùhùàòùfùK @ùù;ùk^, -Zà ZàoKù -âKùg^, @ùjé^òK aò\yùkd -âZòÀù AZýù'ò @ùjé^òK iùjòZý iéÀòe -âùe,òK -âdùì	LM/IM	Text books, Reference books	CO1
				@ùjé^òK IWyò@ù iùjòZye -éÁbìcò ^òcòùYùe aògòA cèLý KùeY	LM/IM	Text books, Reference books	CO1
				@ùjé^òK ~éMe iùcùRòK -éÁbìcò iò Kòúz -âgùùakú	LM/IM	Text books, Reference books	CO1
4				@ùjé^òK ~éMe eùR^ùZòK -éÁbìcò iò Kòúz -âgùùakú	LM/IM	Text books, Reference books	CO1
				@ùjé^òK ~éMe iùòÁéZòK -éÁbìcò iò Kòúz -âgùùakú DOUBT CLEARING CLASS	LM/IM	Text books, Reference books	CO1
				GROUP DISCUSSION	LM/IM	Text books, Reference books	CO1

\*LM – Lecture Mode, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

Department	ODIA
Course Name	HC - 102
Semester	I
No of Weeks	4
No of Periods/week	4
Teacher's Name	DR.SANJITA MISHRA

Total No. of periods: = 16

Week	Period	Unit	Topics	Method of Teaching (LM/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	UNIT-2	eù]ù^ù] iùjòZý @ad^e _éÁbicò	LM/IM	Text books, Reference books	CO2
	2		eù]ù^ù]u Kúayù\gð	LM/IM	Text books, Reference books	CO2
	3		eù]ù^ù]u iéAò ùa÷PòZây	LM/IM	Text books, Reference books	CO2
	4		PìábùMù _ùV I @ùùfùP^ù	LM/IM	Text books, Reference books	CO2
2	1		PìábùMù Kúayùe PìábùMù _ùV I @ùùfùP^ù	LM/IM	Text books, Reference books	CO2
	2		@ùjeYùe icúKeYe _àùdùM	LM/IM	Text books, Reference books	CO2
	3		PìábùMù Kúayé KìúaÉé ^òcðùYùe Kaò·Zééù	LM/IM	Text books, Reference books	CO2
	4		PìábùMù Kúayé KìúaÉé ^òcðùYùe Kaò·Zééù	LM/IM	Text books, Reference books	CO2
3	1		PìábùMù Kúayùe eù]ù^ù]u _âKéZò PòZây	LM/IM	Text books, Reference books	CO2
	2		PìábùMù Kúayùe eù]ù^ù]u _âKéZò PòZây	LM/IM	Text books, Reference books	CO2
	3		PìábùMù Kúayùe eù]ù^ù]u gòl·Zééù	LM/IM	Text books, Reference books	CO2
	4		PìábùMù Kúayùe eù]ù^ù]u gòl·Zééù	LM/IM	Text books, Reference books	CO2
4	1		PìábùMù Kúayùe eù]ù^ù]u Kúayù\gð, KìúaÉé, gòlKkù iò_KòúZ _âgÙùakù	LM/IM	Text books, Reference books	CO2
	2		PìábùMù Kúay i'Sùd _âgÙùakù	LM/IM	Text books, Reference books	CO2

3	DOUBT CLEARING CLASS	LM/IM	Text books, Reference books	CO2
4	ASSESSMENT	LM/IM	Text books, Reference books	CO2

\*LM – Lecture Mode, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

Department	ODIA
Course Name	HC -102
Semester	1
No of Weeks	4
No of Periods/week	4
Teacher's Name	DR. CHITTARANJAN PANDA

Total No. of periods: = 16

Week	Period	Unit	Topics	Method of Teaching (LM/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	UNIT-3	iZyaù\ú Kúáy]úeù   ùMù_aşê	LM/IM	Text books, Reference books	CO3
	2		ùMù_aşê iùjòZý @şd^e _éÁbìcò   Kaòù iéÀò ùa+PòZâý	LM/IM	Text books, Reference books	CO3
	3		']cô_ \ ' Kúáyè K]úaÉé	LM/IM	Text books, Reference books	CO3
	4		']cô_ \ ' Kúáyè K]úaÉé	LM/IM	Text books, Reference books	CO3
2	1		']cô_ \ ' Kúáyè Kaòù gò]kkù	LM/IM	Text books, Reference books	CO3
	2		RùZúdzúáù\ú Pò«ùùPZ^ùe ÇéèY	LM/IM	Text books, Reference books	CO3

3		RûZúdZûaûlú Pò«ûûPZ^ûe ÇêeY	LM/IM	Text books, Reference books	CO3
4		iû]ðK Mû]ûKûay bûaùe aòùgæhY	LM/IM	Text books, Reference books	CO3
3	1	]cð_ \ Kûaye @ûwòK   @ûcòòK_ le icú]û	LM/IM	Text books, Reference books	CO3
	2	iZyaûlú Kûay]ûeûe ]cð_ \ 'e iûû^ ^òei Y	LM/IM	Text books, Reference books	CO3
	3	iZyaûlú Kûay]ûeûe ]cð_ \ 'e iûû^ ^òei Y	LM/IM	Text books, Reference books	CO3
	4	]cð_ \ ' Kûaye @ûwòK   @ûcòòK aòba í'şúð_ âgÛûakú	LM/IM	Text books, Reference books	CO3
4	1	iZyaûlú Kûay]ûeûe ]cð_ \ ' iûû^ ^òei Y í'şúð_ âgÛûakú	LM/IM	Text books, Reference books	CO3
	2	ùMû_aşeu 'KûayRMZ   ]cð_ \ ' iõ_KõúZ_ âgÛûakú	LM/IM	Text books, Reference books	CO3
	3	DOUBT CLEARING CLASS	LM/IM	Text books, Reference books	CO3
	4	QUESTION ANSWER DISCUSSION	LM/IM	Text books, Reference books	CO3

\*LM – Lecture Mode IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

Department	ODIA
Course Name	HC - 102
Semester	1
No of Weeks	4
No of Periods/week	4
Teacher's Name	SMT. ARCHANAMAYEE PANDA

Total No. of periods: = 16



Week	Period	Unit	Topics	Method of Teaching (LM/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	UNIT-4	1950 ciòjù _~ðý« IWyò@ù KaòZùe Jùeù	LM/IM	Text books, Reference books	CO4
	2		1950 ciòjù _~ðý« _âcêL KùayùPZ^ù	LM/IM	Text books, Reference books	CO4
	3		1950 ciòjù _~ðý« _âcêL KùayùPZ^ù	LM/IM	Text books, Reference books	CO4
	4		Mwùje ùcùjeu iéÁò iòìue Gaò Kùayù\gð	LM/IM	Text books, Reference books	CO4
2	1		Mwùje 'bqò' - KaòZù _ùV   @ùùfùP^ù	LM/IM	Text books, Reference books	CO4
	2		_làPeY _...^ùdKu iéÁò ùa+PòZây Gaò Kùayù\gð	LM/IM	Text books, Reference books	CO4
	3		'Jckò_ùjùWý' - _ùV   @ùùfùP^ù	LM/IM	Text books, Reference books	CO4
	4		'Jckò_ùjùWý' - _ùV   @ùùfùP^ù	LM/IM	Text books, Reference books	CO4
3	1		Ké«kùKécùéuu Kùayìoiùe Z[jù Kaòu bùaù\gð	LM/IM	Text books, Reference books	CO4
	2		'ùg`ùkò_âZò' - _ùV   @ùùfùP^ù	LM/IM	Text books, Reference books	CO4
	3		'ùg`ùkò_âZò' - _ùV   @ùùfùP^ù	LM/IM	Text books, Reference books	CO4
	4		cùdùje cù^iòòju KùayRMZ   ÊZ^aZù	LM/IM	Text books, Reference books	CO4
4	1		'cjù^ùue ùRýù>ùù aòjùe' - _ùV   @ùùfùP^ù	LM/IM	Text books, Reference books	CO4
	2		_VòZ KùaòZùe _âcêL bùajùeù i'şùd _âgùùakù	LM/IM	Text books, Reference books	CO4

3			<b>_ VòZ KaòZúe gòi·Zéeu i 'Súd _âgÛûakú</b>	LM/IM	Text books, Reference books	CO4
4			ASSESSMENT	LM/IM	Text books, Reference books	CO4

\*LM – Lecture Mode, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

Department	ODIA
Course Name	HC - 102
Semester	1
No of Weeks	4
No of Periods/week	4
Teacher's Name	DR. SUGYANI KUMARI SAHU

Total No. of periods: = 16

Week	Period	Unit	Topics	Method of Teaching (LM/DM)	Source of Teaching Materials	Corresponding COs
1	1	UNIT-5	ଶୂନ୍ୟ:- ସାଫ୍ଟସ୍ପ ଅଫ୍: 1950 ciòjû _ea• ðú IWyò@ù Kûayjûeù	LM/IM	Text books, Reference books	CO5
	2		1950 ciòjû _ea• ðú icde _âcêL Kaò I ùicû^ue iéAòRMZ	LM/IM	Text books, Reference books	CO5
	3		iyò\ù  eùCZeùdu iéAò ùa=PòZây Gaõ _âcêL Kûay ùPZ^ù	LM/IM	Text books, Reference books	CO5
2	1		'ùKûYûKõ' - _ùV   @ùùfûP^ù	LM/IM	Text books, Reference books	CO5
	2		'ùKûYûKõ' - _ùV   @ùùfûP^ù	LM/IM	Text books, Reference books	CO5
	3		Mééé_âiù\ cju«òu Kûaybûa^ù Gaõ eP^ù i,ùe	LM/IM	Text books, Reference books	CO5

4	Mééé_áíù\cjú«òu Kúáybúa^ù Gaõ eP^ù i,ùe	LM/IM	Text books, Reference books	CO5	
3	1	'Kúk_éèèh' -_ùV   @ùùfùP^ù	LM/IM	Text books, Reference books	CO5
	2	'Kúk_éèèh' -_ùV   @ùùfùP^ù	LM/IM	Text books, Reference books	CO5
	3	'ùàYèje eùCZ'u KúáyRMZ   ÊZ^aZù	LM/IM	Text books, Reference books	CO5
	4	'_òwkùe ìi~ðý' -_ùV   @ùùfùP^ù	LM/IM	Text books, Reference books	CO5
4	1	'ecùKù« e[ 'u KúáyùPZ^ù Gaõ iéÁò ùa÷PòZáy	LM/IM	Text books, Reference books	CO5
	2	'fYx^' - KaòZù_ùV   @ùùfùP^ù	LM/IM	Text books, Reference books	CO5
	3	_VòZ KaòZù MèWyòKe_ázò`kòZ_âcêL KúáyùPZ^ù i'şùd_âgÜùakú	LM/IM	Text books, Reference books	CO5
	4	_VòZ KaòZù MèWyòKe gòlKkù i'şùd_âgÜùakú	LM/IM	Text books, Reference books	CO5

\*LM – Lecture Mode, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	ODIA
Course Name	CC-1
Semester	1
No of Weeks	4
No of Periods/week	5
Teacher's Name	DR. CHITTARANJAN PANDA

Total No. of periods: = 20

Week	Period	Unit	Topics	Method of Teaching (LM/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	UNIT-1	IWò@ù iùjòZýe AZòjúiue ~ém aòbùR^	LM/IM	Text books, Reference books	CO1
	2		_âùKp iùekù iùjòZýe Éei_ I ùa±gòÁy	LM/IM	Text books, Reference books	CO1
	3		P~ðýue icliúçù I búhù	LM/IM	Text books, Reference books	CO1
	4		P~ðýùKùe cù^ue aòaeYú	LM/IM	Text books, Reference books	CO1
	5		^ù[ iùjòZýe _éÁbìcò I aòKùg]úeú)	LM/IM	Text books, Reference books, PPTs	CO1
2	1		^ù[ iùjòZýe iùjòZòyK cify	LM/IM	Text books, Reference books	CO1
	2		^ù[ iùjòZýe iùcùRòK òm	LM/IM	Text books, Reference books	CO1
	3		^ù[ iùjòZýe ]úcòðK òm	LM/IM	Text books, Reference books	CO1
	4		_âùKp iùekù iùjòZýe iùcùRòK cify	LM/IM	Text books, Reference books	CO1
	5		_âùKp iùekù iùjòZýe ]úcòðK cify	LM/IM	Text books, Reference books	CO1

3	1						books		CO1
	2						Text books, Reference books		CO1
	3						Text books, Reference books		CO1
	4						Text books, Reference books		CO1
	5						Text books, Reference books		CO1
4	1						Text books, Reference books		CO1
	2						Text books, Reference books		CO1
	3						Text books, Reference books		CO1
	4						Text books, Reference books		CO1
	5						Text books, Reference books		CO1

\*LM – Lecture Mode, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

Department	ODIA
Course Name	CC - 1
Semester	1
No of Weeks	4
No of Periods/week	5
Teacher's Name	DR. SUGYANI KUMARI SAHU

Total No. of periods: = 20

Week	Period	Unit	Topics	Method of Teaching (LM/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	UNIT-2	iûekû ~êMe Kûk ^ðei_Y	LM/IM	Text books, Reference books	CO2
	2		iûekû\ûiu R^à I Rúa^	LM/IM	Text books, Reference books	CO2
	3		iûekû\ûiu iéAò icúlú	LM/IM	Text books, Reference books	CO2
	4		cjûbûeZe ùcøkòKZû	LM/IM	Text books, Reference books	CO2
	5		iûekûiûjòZýe eûR^úZòK _éÁbìcò	LM/IM	Text books, Reference books	CO2
2	1		iûekûiûjòZýe iûcûRòK _éÁbìcò	LM/IM	Text books, Reference books	CO2
	2		iûekûiûjòZýe iûðÁéZòK _éÁbìcò	LM/IM	Text books, Reference books	CO2
	3		iûekûiûjòZýe Jcð	LM/IM	Text books, Reference books	CO2
	4		iûekûiûjòZýe iûjòZòYK cifý	LM/IM	Text books, Reference books	CO2
	5		iûekû\ûiu eP^ùe cûZéC_ûi^ùe Jûeû	LM/IM	Text books, Reference books	CO2
3	1		gûqiûjòZý I gé\âcé^ò iûekû\ûi	LM/IM	Text books, Reference	CO2

	2								books
									Text books, Reference books
	3								Text books, Reference books
									Text books, Reference books
	4								Text books, Reference books
									Text books, Reference books
	1								Text books, Reference books
									Text books, Reference books
	2								Text books, Reference books
									Text books, Reference books
	3								Text books, Reference books
									Text books, Reference books
	4								Text books, Reference books
									Text books, Reference books
	5								Text books, Reference books

\*LM – Lecture Mode, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

Department	ODIA
Course Name	CC – 1
Semester	1
No of Weeks	4
No of Periods/week	5
Teacher's Name	DR. NARENDRA NATH NAYAK

Total No. of periods: = 20

Week	Period	Unit	Topics	Method of Teaching (LM/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	UNIT-	IWògùè • iLúu @béyd	LM/IM	Text books, Reference	CO3

	3					books		
2				• iLú Kúk ^ðei_Y	LM/IM	Text books, Reference books	CO3	
3				• iLú iùjòZýe _éÁbicò l _eòùag	LM/IM	Text books, Reference books	CO3	
4				• iLú iùjòZýe eùRù^±ZòK _éÁbicò	LM/IM	Text books, Reference books	CO3	
5				□□□□□□ □□□□□□□□ □□□□□□□□□□	LM/IM	Text books, Reference books	CO3	
2	1			CKókúd ùa±¾a ]ùeùe _ • iLú	LM/IM	Text books, Reference books	CO3	
	2			aùdùRýÁ akeùc \ùiu _eòPd	LM/IM	Text books, Reference books	CO3	
	3			akeùc \ùiu iéÁò icúlú	LM/IM	Text books, Reference books	CO3	
	4			akeùc \ùiu iéÁò icúlú	LM/IM	Text books, Reference books	CO3	
	5			@Zòawú RM^Üù] \ùiu R^à l Rúa^ú	LM/IM	Text books, Reference books	CO3	
3	1			RM^Üù] \ùiu iéÁò Z]ù búMaZe ùcøkòKZù	LM/IM	Text books, Reference books	CO3	
	2			RMùcùj^ eùcùdY akeùc \ùiu	LM/IM	Text books, Reference books	CO3	
	3			RMùcùj^ eùcùdY akeùc \ùiu	LM/IM	Text books, Reference books	CO3	
	4			akeùc \ùiu @Lýù^]cùú Mâ^	LM/IM	Text books, Reference books	CO3	
	5			akeùc \ùiu @Lýù^]cùú Mâ^U	LM/IM	Text books, Reference books	CO3	
4	1			akeùc \ùiu @Lýù^]cùú Mâ^U	LM/IM	Text books, Reference books	CO3	
	2			_ VòZ _ • iLú ~êMe _àùgÜù• e	LM/IM	Text books, Reference books	CO3	
	3			_ VòZ RM^Üù] \ùiu e _àùgÜù• e	LM/IM	Text books, Reference books	CO3	
	4			_ VòZ akeùc \ùiu e _àùgÜù• e	LM/IM	Text books, Reference books	CO3	



5	ASSESSMENT		LM/IM	books	CO3

\*LM – Lecture Mode, , IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

Department	ODIA
Course Name	CC – 1
Semester	1
No of Weeks	4
No of Periods/week	5
Teacher's Name	DR.NARENDRA NATH NAYAK

Total No. of periods: = 20

Week	Period	Unit	Topics	Method of Teaching (LM/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	UNIT-4	@PéyZù^  \úíue R^à, Rúa^ò   iéÀò	LM/ICT/IM	Text books, Reference books	CO4
	2		@PéyZù^  \úíue eP^úe àòùghZß	LM/IM	Text books, Reference books	CO4
	3		@^« \úíue R^à   Rúa^ú	LM/IM	Text books, Reference books	CO4
	4		@^« \úíue eP^úe òM	LM/IM	Text books, Reference books	CO4
	5		~ùgûa« \úíue R^à, Rúa^ú   iéÀò	LM/IM	Text books, Reference books	CO4
2	1		ù_âcbqò aâjàMúZù   ~ùgûa« \úí	LM/IM	Text books, Reference books	CO4
	2		gì^ý iøjòZù GK @aùfûK^	LM/IM	Text books, Reference books	CO4
	3		'ùMûaò  P'jà' GK ù~ùMZù• ßòK	LM/IM	Text books, Reference books	CO4

4		@ùúfùP^ù		LM/IM	Text books, Reference books	CO4	
5		jeòàõg cjù_éeùYe ùcøkòKZù		LM/IM	Text books, Reference books	CO4	
3	1	_ • iLù iùjòZýe aòùghZìS		LM/IM	Text books, Reference books	CO4	
	2	_ • iLù   icùR		LM/IM	Text books, Reference books	CO4	
	3	_ • iLù   iõÁéZò		LM/IM	Text books, Reference books	CO4	
	4	ùjZè C\d bùMaZ		LM/IM	Text books, Reference books	CO4	
	5	ùjZè C\d bùMaZ		LM/IM	Text books, Reference books	CO4	
4	1	ଭାକସମ୍ପୁତ୍ର		LM/IM	Text books, Reference books	CO4	
	2	ଭାକସମ୍ପୁତ୍ର		LM/IM	Text books, Reference books	CO4	
	3	_ VòZ @PéyZù^ù iµKõùe _ àùgÜù• e		LM/IM	Text books, Reference books	CO4	
	4	_ VòZ ~ùgùa«, @^« \ùie _ àùgÜù• e		LM/IM	Text books, Reference books	CO4	
	5	PRESENTATION BY STUDENTS		LM/IM	Text books, Reference books	CO4	

\*LM – Lecture Mode, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	HOME SCIENCE	HOME SCIENCE
Course Name	HC- 3	HC- 3
Semester	I	I
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Dr. Suparna Patel, Mrs. N.Swati, Miss Farheen Parveen	Dr. Suparna Patel, Mrs. N.Swati, Miss Farheen Parveen

Total No. of periods: 53 (Theory) + 27 (Lab) = 80

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I	Extension Education-Concept	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Extension Education-Types of education	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Difference between Informal education, formal Education and non-formal education	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	4		Need of Extension Education	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	5		Objectives of Extension education	LM/ICT/IM		CO1
2	6		Philosophy of Extension education	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	7		Principle of Extension Education	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	8		Conceptual Framework of Extension Education - Extension as education	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	9		Extension as communication Intervention	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	10		Extension as persuasion, Extension as transfer of technology	LM/ICT/IM	Text books, Reference books, PPTs	CO1

3	11	Emancipatory Extension, Extension education as science and discipline	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	12	Extension as profession	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4	14	Program planning and evaluation- meaning of program planning	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	15	Program planning in terms of situation and objective	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	16	Program planning in terms of problems and solutions	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	17	Program planning process	LM/ICT/IM		CO2
	18	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
5	19	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	20	Importance of program planning process	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	21	Evaluation-types	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	22	Principles of Extension program planning	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	23	Characteristics of good program	LM/ICT/IM		CO2
	24	Continuation	LM/ICT/IM		CO2
	25	Written Assignment	LM/ICT/IM		CO2
	26	Home Science Extension Programs- Objectives	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	27	Activities of Home Science Extension Programs	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	28	ICDS	LM/ICT/IM	Text books, Reference books, PPTs	CO3
7	29	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3

	30		Mission Shakti		LM/ICT/IM		Text books, Reference books, PPTs	CO3
	31		Balika samridhi yogna		LM/ICT/IM		Text books, Reference books, PPTs	CO3
	32		Kishori Shakti Yogna		LM/ICT/IM		Text books, Reference books, PPTs	CO3
	33		Nutrition Program for adolescent girls		LM/ICT/IM		Text books, Reference books, PPTs	CO3
8	34		Rajeev Gandhi National scheme for the children of working mother					CO3
	35		One stop centre		LM/ICT/IM		Text books, Reference books, PPTs	CO3
	36		Doubt clearing		LM/ICT/IM		Text books, Reference books, PPTs	CO3
	41	IV	Teaching learning process-meaning and concept		LM/ICT/IM		Text books, Reference books, PPTs	CO4
	42		Steps in teaching learning process		LM/ICT/IM		Text books, Reference books, PPTs	CO4
10	43		Continuation		LM/ICT/IM		Text books, Reference books, PPTs	CO4
	44		Criteria for effective teaching		LM/ICT/IM		Text books, Reference books, PPTs	CO4
	45		Criteria for effective learning		LM/ICT/IM		Text books, Reference books, PPTs	CO4
	46		Teaching learning situation		LM/ICT/IM		Text books, Reference books, PPTs	CO4
	47		Principles of learning		LM/ICT/IM		Text books, Reference books, PPTs	CO4
11	48		Trail and Error theory		LM/ICT/IM		Text books, PPTs	CO4
	49		Learning by conditioning		LM/ICT/IM		Text books, PPTs	CO4

50		Primary laws of leaning	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51		Secondary laws of learning	LM/ICT/IM	Text books, Reference books, PPTs	CO4
52		Written assignment	LM/ICT/IM	Text books, Reference books, PPTs	CO4
53	V	Adult Education-meaning and Concept	LM/ICT/IM	Text books, Reference books, PPTs	CO5
54		Adult learner	LM/ICT/IM	Text books, Reference books, PPTs	CO5
55		Adult Education- objectives	LM/ICT/IM	Text books, Reference books, PPTs	CO5
56		Problems of Adult education	LM/ICT/IM	Text books, Reference books, PPTs	CO5
57		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5
58		Characteristics of adult learner	LM/ICT/IM	Text books, Reference books, PPTs	CO5
59		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5
60		Way to motivate adult learners	LM/ICT/IM	Text books, Reference books, PPTs	CO5
61		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5
62		Principle of adult learning	LM/ICT/IM	Text books, Reference books, PPTs	CO5
63		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5
64		Myths of about adult learners	LM/ICT/IM	Text books, Reference books, PPTs	CO5
65		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5

	66	Written Assignment	LM/ICT/IM	Text books, Reference books, PPTs	CO5
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SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	HOME SCIENCE	HOME SCIENCE
Course Name	HC- 101	HC- 101
Semester	I	I
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Dr. Ajanta Nayak. Mrs Padmaja Jagati	Dr. Ajanta Nayak. Mrs Padmaja Jagati

Total No. of periods: 53 (Theory) + 27 (Lab) = 80

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I	Food as source of Nutrient: Definition & function of food	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Food-groups and nutrients	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Food guide pyramids and its importance	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	4		Factors affecting food habit and their modification.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	5		Meal planning: objectives, factors affecting meal planning for the family.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	6		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	7		Enhancing the nutritive value of foods Germination, fermentation	LM/ICT/IM	Text books, Reference books, PPTs	
	8		Food synergy, food fortification	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2	9		Selection & storage of food; perishable, non-perishable & convenience foods	LM/ICT/IM	Text books, Reference books, PPTs	CO1



10		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Quality and Economy factors in food selection			
12		Nutrient losses during storage.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Written Assignment	LM/ICT/IM	Text books, Reference books, PPTs	
14	II	Food preparation: objective of cooking	LM/ICT/IM	Text books, Reference books, PPTs	CO2
15		Methods of cooking, Cooking media	LM/ICT/IM	Text books, Reference books, PPTs	CO2
16		Effect of cooking on food quality & changes in nutrient during cooking.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
17		Food deterioration: factors contributing to food deterioration	LM/ICT/IM	Text books, Reference books, PPTs	CO2
18		Written Assignment	LM/ICT/IM	Text books, Reference books, PPTs	CO2
19		Microbial spoilage, role of food enzyme in food deterioration	LM/ICT/IM	Text books, Reference books, PPTs	CO2
20		Role of insects, parasites and rodents, temperature, moisture, oxygen, light and time in food deterioration	LM/ICT/IM	Text books, Reference books, PPTs	CO2
21		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
22		Food preservation and processing by heat, by cold		Text books, Reference books, PPTs	CO2
3		Food preservation and processing by deep freezing, drying	LM/ICT/IM	Text books, Reference books, PPTs	CO2
24		Food preservation and processing by concentration	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Food preservation and processing by fermentation radiation	LM/ICT/IM	Text books, Reference books, PPTs	CO2

26		Doubt clarification	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27	III	Carbohydrates – Classification	LM/ICT/IM	Text books, Reference books, PPTs	CO3
28		Functions and Sources of carbohydrate	LM/ICT/IM	Text books, Reference books, PPTs	CO3
29		Requirements and Deficiencies of Carbohydrate	LM/ICT/IM	Text books, Reference books, PPTs	CO3
4	30	Carbohydrates - Digestion and Absorption	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	31	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	32	Proteins – Classification and Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	33	Proteins – Sources and Requirements	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	34	Deficiency of Protein	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	35	Digestion & Absorption of protein	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	36	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	37	Fats- Classification, Functions, Sources, Requirements	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	38	Deficiency, Digestion & Absorption of Fats	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	39	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	40	Quiz	LM/ICT/IM	Text books, Reference books, PPTs	
	41	Thiamine- Functions, sources, requirements and effect of their deficiency.	LM/ICT/IM	Text books, Reference books, PPTs	CO4

42			Riboflavin- Functions, sources, requirements and effect of their deficiency.	LM/ICT/IM	Text books, Reference books, PPTs	CO4	
43			Niacin - Functions, sources, requirements and effect of their deficiency.	LM/ICT/IM	Text books, Reference books, PPTs	CO4	
44			Cyanocobalamin -Functions, sources, requirements and effect of their deficiency	LM/ICT/IM	Text books, Reference books, PPTs	CO4	
45			Folic acid- Functions, sources, requirements and effect of their deficiency	LM/ICT/IM	Text books, Reference books, PPTs	CO4	
46	7		Functions, sources, requirements of fat-soluble vitamins A and D effect of their deficiency.	LM/ICT/IM	Text books, Reference books, PPTs	CO4	
47			Functions, sources, requirements of fat-soluble vitamins E and K and effect of their deficiency.	LM/ICT/IM	Text books, Reference books, PPTs	CO4	
48			Written Assignment	LM/ICT/IM	Text books, Reference books, PPTs		
49			Functions, sources, requirements of minerals: Calcium, phosphorus and Iodine effect of their deficiency.	LM/ICT/IM	Text books, Reference books, PPTs	CO4	
50			Functions, sources, requirements of minerals: sodium, iron, zinc and effect of their deficiency.	LM/ICT/IM	Text books, Reference books, PPTs	CO4	
51			Importance of water- recommended dietary allowances, sources.	LM/ICT/IM	Text books, Reference books, PPTs	CO4	

	52		Importance of roughages- recommended dietary allowances, sources.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
8	53	V	Recommended dietary allowances, Factors affecting RDA	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	54		Principles of deriving RDA	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	55		RDA & balanced diet for various age groups	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	56		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	57		Methods of measuring calorific value of a diet	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	58		Uses of RDI, translating RDI into daily food intake	LM/ICT/IM	Text books, Reference books, PPTs	CO5
9	59		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	60		Regulation of food intake	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	61		Requirements and Recommended Dietary Allowances for various age groups.	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	62		Balanced diet for adult man and woman,	LM/ICT/IM	Text books, Reference books, PPTs	CO5
10	63		Balanced diet for pregnant and lactating woman .	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	64		Quiz	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	65		Revision	LM/ICT/IM	Text books, Reference books, PPTs	CO5

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	HOME SCIENCE	HOME SCIENCE
Course Name	HC- 302	HC- 302
Semester	III	III
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Mrs. N.Swati, Miss Farheen Parveen	Mrs. N.Swati, Miss Farheen Parveen
Total No. of periods: 53 (Theory) + 27 (Lab) = 80		

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I	Counselling: Concept of Counselling	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2			Meaning and significance of Counselling	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3			Scope, and principles of Counselling.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4			Difference between Guidance and Counselling,	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5			Difference between Counselling and Psychotherapy	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6			Doubt clearance	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7			Theories of Counselling – Behavioural theory	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8			Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9			Psychoanalytic Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10			Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO1

3	11		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	12		Self-Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	13		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4	14	II	Techniques of Counselling: Directive Therapy, Non-Directive Counselling	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	15		Techniques of Counselling : Eclectic, psychodrama, play therapy	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	16		Behavioural therapy: relaxation training, modelling.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	17		Behavioural therapy: positive reinforcement, charting, systematic generalizations of behaviour.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	18		Discussion	LM/ICT/IM	Text books, Reference books, PPTs	CO2
5	19		Types of Counselling-Individual Counselling: Meaning and concept	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	20		Individual Counselling- their need, settings and outcome of the Counselling.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	21		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	22		Group Counselling-Meaning and concept.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	23		Group Counselling: their need, settings and outcome of the Counselling.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	24		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	25		Assignment	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	26	III	Area of Counselling	LM/ICT/IM	Text books, Reference books, PPTs	CO3

27		Role of Psychometric tests in Counselling	LM/ICT/IM	Text books, Reference books, PPTs	CO3
28		Aptitude, Intelligence and personality tests	LM/ICT/IM	Text books, Reference books, PPTs	CO3
29	7	Pre-marital Counselling	LM/ICT/IM	Text books, Reference books, PPTs	CO3
30		Post marital Counselling	LM/ICT/IM	Text books, Reference books, PPTs	CO3
31		Parental Counselling	LM/ICT/IM	Text books, Reference books, PPTs	CO3
32		Counselling to drug addicts.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
33		Doubt Clearance	LM/ICT/IM	Text books, Reference books, PPTs	CO3
34	8	Family Counselling- meaning and concept	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35		Significance of counselling - dual earner families	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36		Significance of counselling - child maltreatment and child abuse	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37		Significance of counselling - adolescent depression and problems	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38		Significance of counselling - Violence in the family	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	9	Counselling for elderly	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40		Quiz	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41	IV	Guidance services	LM/ICT/IM	Text books, Reference books, PPTs	CO4
42		Organization of Guidance Service at Different Levels of Education	LM/ICT/IM	Text books, Reference books, PPTs	CO4

10	43		Continuation		LM/ICT/IM	Text books, Reference books, PPTs	CO4
	44		Education of good Guidance Program		LM/ICT/IM	Text books, Reference books, PPTs	CO4
	45		Continuation		LM/ICT/IM	Text books, Reference books, PPTs	CO4
	46		Kinds of Services in Guidance		LM/ICT/IM	Text books, Reference books, PPTs	CO4
	47		Continuation		LM/ICT/IM	Text books, Reference books, PPTs	CO4
11	48		Doubt clearance		LM/ICT/IM	Text books, Reference books, PPTs	CO4
	49		Role of personnel in Guidance Programme.		LM/ICT/IM	Text books, Reference books, PPTs	CO4
	50		Continuation		LM/ICT/IM	Text books, Reference books, PPTs	CO4
	51		Quiz		LM/ICT/IM	Text books, Reference books, PPTs	CO4
	52		Written assignment		LM/ICT/IM	Text books, Reference books, PPTs	CO4
	53	V	Counselling in Educational Setting:		LM/ICT/IM	Text books, Reference books, PPTs	CO5
	54		Counselling the elementary school.		LM/ICT/IM	Text books, Reference books, PPTs	CO5
	55		Counselling the high school children		LM/ICT/IM	Text books, Reference books, PPTs	CO5
	56		Counselling at college		LM/ICT/IM	Text books, Reference books, PPTs	CO5
	57		Role of teachers in counselling.		LM/ICT/IM	Text books, Reference books, PPTs	CO5
	58		Theories of vocational development.		LM/ICT/IM	Text books, Reference books, PPTs	CO5
	59		The Trait and Factor theory		LM/ICT/IM	Text books, Reference books, PPTs	CO5



60	Holland's Theory of Vocational Types	LM/ICT/IM	Text books, Reference books, PPTs	CO5
61	Ginsberg Theory of Vocational Choice	LM/ICT/IM	Text books, Reference books, PPTs	CO5
62	Roe's Personality Development Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO5
63	Bandura's Social Cognitive Career Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO5
64	Process of vocational counselling.	LM/ICT/IM	Text books, Reference books, PPTs	CO5
65	Distinction between vocational guidance and counselling.	LM/ICT/IM	Text books, Reference books, PPTs	CO5
66	Written Assignment	LM/ICT/IM	Text books, Reference books, PPTs	CO5

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	HOME SCIENCE	HOME SCIENCE
Course Name	CC – I, Human Development-1	CC – I, Human Development-1
Semester	I	I
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Smt. Indurekha Mohapatra	Dr. Suparana Patel

Total No. of periods: 53 (Theory) + 27 (Lab) = 80

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I	Introduction to human development	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Definition of growth and development	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Difference between growth and development	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	4		Scope of child development	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	5		Quiz			CO1
2			Principles of growth and development	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	7		General principles- Cephalocaudal, Proximodistal	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	8		Growth and development is a continuous process, growth and development is orderly and sequential process	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	9		Influenced by environmental and genetic factor, growth and development is predictable	LM/ICT/IM	Text books, Reference books, PPTs	CO1

	10		Development proceeds from simple to complex, certain stage of growth and development are more critical	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3	11		Growth is uneven, there is no coordination between increase in size and maturation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	12		Principle of individual difference, rate of growth and development is inter related	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	13		Neonatal reflexes need to be lost, skills are learnt by practice, growth comes from within	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	14		Growth has certain characteristics at particular age, proceeds from general to specific	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	15		Assignment			CO1
4	16		Stages of human development- neonatal, infancy	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	17		Preschool, school going, adolescence	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	18		Adulthood, old age	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	19		Revision			CO1
	20	II	Prenatal development- conception and beginning of pregnancy	LM/ICT/IM	Text books, Reference books, PPTs	CO2
5	21		Stages of Prenatal growth and development- period of ovum	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	22		Period of embryo	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	23		Period of foetus	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	24		Factors affecting prenatal development- Maternal age, maternal nutrition	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	25		Maternal diseases, Rh Factor, maternal stress	LM/ICT/IM	Text books, Reference books, PPTs	CO2
6	26		Impact of X-ray, smoking and drinking	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	27		Doubt clearance			CO2

	28	III	Physical Development during Infancy	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	29		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	30		Physical development during pre school years	LM/ICT/IM	Text books, Reference books, PPTs	CO3
7	31		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	32		Motor development during infancy	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	33		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	34		Motor development during pre school years	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	35		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
8	36		Quiz			CO3
	37		Social development during infancy	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	38		Social development during preschool	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	39		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	40		Emotional development during infancy	LM/ICT/IM	Text books, Reference books, PPTs	CO3
9	41		Emotional development during pre school years	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	42		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	43		Doubt Clearance			CO3
	44	IV	Physical development during 6-8 years	LM/ICT/IM	Text books, Reference books, PPTs	CO4

	45	Physical development during 9-10 years	LM/ICT/IM	Text books, Reference books, PPTs	CO4
10	46	Social development during 6-8 years	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	47	Social development during 9-10 years	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	48	Emotional development during 6-8 years	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	49	Emotional development during 9-10 years	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	50	Revision			CO4
11	51	Language development during 6-8 years	LM/ICT/IM	Text books, PPTs	CO4
	52	Language development during 9-10 years	LM/ICT/IM	Text books, PPTs	CO4
	53	Written Assignment			CO4
<b>Core I LAB</b>					
1	54	Prepare poster showing pleasant emotions	DM	Lab manual	CO5
	55				
	56				
2	57	Prepare poster showing unpleasant emotions	DM	Lab manual	CO5
	58				
	59				
3	60	Record writing	DM	Lab manual	CO5
	61				
	62				
4	63	Develop material to facilitate cognitive development (preparation of posters)	DM	Lab manual	CO5
	64				
	65				
5	66	Develop material to facilitate cognitive development (preparation of posters)	DM	Lab manual	CO5
	67				
	68				
6	69	Record Writing	DM	Lab manual	CO5
	70				
	71				

7	72	iii	Develop material to facilitate cognitive development (preparation of toys)	DM	Lab manual	CO5
	73					
	74					
8	75	iv	Develop material to facilitate cognitive development (preparation of toys)	DM	Lab manual	CO5
	76					
	77					
9	78		Record writing	DM	Lab manual	CO5
	79					
	80					

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classwork practice)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	HOME SCIENCE	HOME SCIENCE
Course Name	HC- 301	HC- 301
Semester	III	III
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Smt Indurekha Mohapatra, Mrs. N.Swati, Miss Farheen Parveen	Smt Indurekha Mohapatra, Mrs. N.Swati, Miss Farheen Parveen

Total No. of periods: 53 (Theory) + 27 (Lab) = 80

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I	Theories of Family -Developmental theory	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Conflict Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	4		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	5		Functional – Structural Theory	LM/ICT/IM		CO1
2	6		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	7		Conceptual Framework for understanding family	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	8		Family as a social system,	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	9		Family dynamics, assessment and intervention	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	10		Contemporary Family types- Nuclear, joint, extended, alternative families.	LM/ICT/IM	Text books, Reference books, PPTs	CO1

3	11		Single parent, Childless family	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	12		Female headed and unitary families	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	13		Doubt clarification	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4	14	II	Marriage: Its impacts on different stages of family life- the unattached young adult, the newly married system	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	15		The family with young children, the family with adolescent,	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	16		The launching and empty nest, the family in later life	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	17		Family life cycle- meaning and importance	LM/ICT/IM		CO2
	18		Married couples, child bearing family – Developmental task	LM/ICT/IM	Text books, Reference books, PPTs	CO2
5	19		Developmental task of families with preschool and school going children	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	20		Developmental task of Families with teenagers, launching young adults	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	21		Developmental task of middle-aged parents and aging families	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	22		Crisis in different stages of family life cycle	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	23		Continuation	LM/ICT/IM		CO2
	24		Need for interventions in various stages of family life cycle.	LM/ICT/IM		CO2
	25		Written Assignment	LM/ICT/IM		CO2
	26	III	Changes in family structure and contemporary issues of family- Causes and consequences	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	27		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3



	28		Contemporary issues and concern of family life- Migration, reduced value in the family system.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
7	29		Impact of mass media- TV, internet, mobile	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	30		Increase in the dissolution of marriage, health hazards- terminal illness and AIDs, unemployment.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	31		Family violence – child abuse, wife battering, discrimination	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	32		Marital conflict – separation, divorce and dowry	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	33		continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
8	34		Family capital -meaning			CO3
	35		Impact of natural family dissolution on the societal harmony	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	36		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	37		Written assignment	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	38	IV	Family Relationship- meaning	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	39		Significance of family relationship in traditional days and in contemporary societies.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
10	40		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	41		Basic element of family relations- family communication, role performance within family.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	42		Family interaction, family adaptability, family cohesion	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	43		continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO4

	44	Family homeostasis		LM/ICT/IM		CO4
11	45	Family boundaries		LM/ICT/IM	Text books, PPTs	CO4
	46	Types of family relationship- couple relationship, parent- child relationship		LM/ICT/IM	Text books, PPTs	CO4
	47	Sibling relationship, in-law relationships		LM/ICT/IM	Text books, PPTs	CO4
	48	Relationship with extended family members		LM/ICT/IM	Text books, PPTs	CO4
	49	Grandparents and grandchildren's relationship		LM/ICT/IM	Text books, PPTs	CO4
	50	National family policy – Social policies and the family provisions under the Ministry of women & child development	V	LM/ICT/IM	Text books, PPTs	CO5
	51	Urban and rural development		LM/ICT/IM	Text books, PPTs	CO5
	52	Continuation		LM/ICT/IM	Text books, PPTs	CO5
	53	Family Welfare Laws and programs- Marriage and divorce laws for Hindus		LM/ICT/IM	Text books, PPTs	CO5
	54	Continuation		LM/ICT/IM	Text books, PPTs	CO5
	55	Family Welfare Laws and programs- Marriage and divorce laws for Muslims		LM/ICT/IM	Text books, PPTs	CO5
	56	Continuation		LM/ICT/IM	Text books, PPTs	CO5
	57	Hindu Succession act		LM/ICT/IM	Text books, PPTs	CO5
	58	Inheritance Laws		LM/ICT/IM	Text books, PPTs	CO5
	59	Protective Laws foe women – dowry		LM/ICT/IM	Text books, PPTs	CO5
	60	Domestic violence		LM/ICT/IM	Text books, PPTs	CO5
	61	Working women		LM/ICT/IM	Text books, PPTs	CO5
	62	Doubt Clarification		LM/ICT/IM	Text books, PPTs	CO5
<b>Core I LAB</b>						
1	54	Prepare poster showing pleasant emotions		DM	Lab manual	CO5
	55					
	56					
2	57	Prepare poster showing unpleasant emotions	is	DM	Lab manual	CO5
	58					
	59					
3	60					

	61		Record writing	DM	Lab manual	CO5
	62					
4	63		Develop material to facilitate cognitive development (preparation of posters)	DM	Lab manual	CO5
	64					
	65					
5	66		Develop material to facilitate cognitive development (preparation of posters)	DM	Lab manual	CO5
	67					
	68	ii				
6	69		Record Writing	DM	Lab manual	CO5
	70					
	71					
7	72		Develop material to facilitate cognitive development (preparation of toys)	DM	Lab manual	CO5
	73	iii				
	74					
8	75		Develop material to facilitate cognitive development (preparation of toys)	DM	Lab manual	CO5
	76					
	77	iv				
9	78		Record writing	DM	Lab manual	CO5
	79					
	80					

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classwork practice)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	HOME SCIENCE	HOME SCIENCE
Course Name	HC- 102	HC- 102
Semester	I	I
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Smt Indurekha Mohaparta, Dr. Suparna Patel	Smt Indurekha Mohaparta, Dr. Suparna Patel

Total No. of periods: 65 (Theory)

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I	Human Development – Meaning, process	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2			Principles of human development.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3			Stages in Human Life Cycle – Neonate, Infancy- Its characteristics and importance	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4			Stages in Human Life Cycle –Early and Late Childhood - Its characteristics and importance.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5			Stages in Human Life Cycle –Adolescence, Adulthood and Old Age - Its characteristics and importance.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6			Doubt Clarification	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7			Theories of Human Development - Cognitive Development of Jean Piaget	LM/ICT/IM	Text books, Reference books, PPTs	CO1

8		Psychoanalytic theory of Sigmund Freud	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2	9	Psychoanalytic theory of Sigmund Freud	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	10	Psycho-social theory of Eric Erickson	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	11	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	12	Ecological theory of Uri Bronfenbrenner.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	13	Quiz	LM/ICT/IM	Text books, Reference books, PPTs	
	14	Biological Basis of Development How Life Begins: Importance of Fertilization	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	15	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	16	Role of Genes & Chromosomes - The mechanism of hereditary transmission and Sex determination	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	17	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	18	Genetic & chromosomal abnormalities or disorders.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	19	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	20	Written Assignment	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	21	Role of Nature (hereditary) & Nurture (environment) in the growth and development of children.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	22	Continuation		Text books, Reference books, PPTs	CO2

3	23		Prenatal growth and Development - Stages of Prenatal Growth and Development	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	24		Factors influencing prenatal growth and development	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	25		Birth process and complications.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	26		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	27	III	Development during Infancy and Early Childhood Years Infancy – Physical, motor & social development.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	28		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	29		Infancy – emotional, cognitive and speech development.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
4	30		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	31		Written Assignment	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	32		Early Childhood Years – Physical, motor, social development.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	33		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	34		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	35		Early Childhood Years – emotional, cognitive and speech development	LM/ICT/IM	Text books, Reference books, PPTs	CO3

36		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37		Doubt Clarification	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38		Meaning & significance of Developmental Task during Infancy	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39		Meaning & significance of Developmental Task during early childhood years.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40		Revision	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41	IV	Development during Late Childhood and Adolescence Late Childhood Years - Physical, speech, emotional development.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
42		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
43		Late Childhood Years - social, intellectual and moral development	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
45		Adolescence – Physical, emotional and social changes	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	7	Interests, family relationships during adolescence.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47		Written Assignment	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48		Adolescence problems - alcoholism and Drug abuse, Juvenile delinquency.	LM/ICT/IM	Text books, Reference books, PPTs	CO4

49		Adolescence problems - depression, suicide, eating disorders.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50		Doubt Clarification	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51		Developmental tasks during late childhood and its significance.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
52		Developmental tasks during adolescent years and its significance.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
8	53	Adulthood and Old age Early and Middle Adulthood – Changes in interest & social mobility.	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	54	Sex-role adjustments during early adulthood.	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	55	Adjustment to physical and mental changes	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	56	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	57	Adjustment to changed interests, social adjustments during middle adulthood.	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	58	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5
9	59	Problems associated with early and middle adulthood.	LM/ICT/IM	Text books, Reference books, PPTs	CO5
	60	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5



61	Old Age – Adjustment to physical changes	LM/ICT/IM	Text books, Reference books, PPTs	CO5
62	Mental health issues (Alzheimer’s disease, Dementia) and other problems associated with this stage.	LM/ICT/IM	Text books, Reference books, PPTs	CO5
63	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5
64	Developmental tasks and its significance during adulthood and old age	LM/ICT/IM	Text books, Reference books, PPTs	CO5
65	Revision	LM/ICT/IM	Text books, Reference books, PPTs	CO5

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	HOME SCIENCE	HOME SCIENCE
Course Name	HC- 202	HC- 202
Semester	II	II
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Smt Indurekha Mohapatra , Farheen Parveen	

Total No. of periods: 65 (Theory)

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I	<b>Textile Fibers</b> Definition of textile fibres and textile related terminologies.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2			Sequence of fabric construction	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3			Classification of fibres.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4			Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5			Sources, composition and end users of cotton & linen fibre.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6			Sources, composition and end users of wool & silk fibre.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7			Sources, composition and end users of mineral fibre.	LM/ICT/IM	Text books, Reference books, PPTs	CO1

8		Sources, composition and end uses of man-made fibres: Cellulosic (rayon, acetate, triacetate) fibres..	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Written Assignment	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Sources, composition and end uses of non-cellulosic polymers (nylon, polyester, acrylic) fibres.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		Sources, composition and end uses of rubber, metallic, mineral (glass, ceramic, graphite) fibres.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Revision	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14	II	Study of Textile Fibbers: Manufacturing process of cotton	LM/ICT/IM	Text books, Reference books, PPTs	CO2
15		Physical and chemical properties of cotton	LM/ICT/IM	Text books, Reference books, PPTs	CO2
16		Manufacturing process of linen	LM/ICT/IM	Text books, Reference books, PPTs	CO2
17		Physical and chemical properties of linen	LM/ICT/IM	Text books, Reference books, PPTs	CO2
18		Doubt Clarification	LM/ICT/IM	Text books, Reference books, PPTs	CO2
19		Manufacturing process of silk	LM/ICT/IM	Text books, Reference books, PPTs	CO2
20		Physical and chemical properties of silk	LM/ICT/IM	Text books, Reference books, PPTs	CO2
21		Manufacturing process of wool	LM/ICT/IM	Text books, Reference books, PPTs	CO2
22		Physical and chemical properties of wool	LM/ICT/IM	Text books, Reference books, PPTs	CO2

	23		Manufacturing process of Polyester.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
3	24		Physical and chemical properties of Polyester.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	25		Quiz	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	26	III	Yarn Formation: Process involved in the manufacture of yarn from the fibres: Blending, opening and cleaning	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	27		Carding, Doubling, Combing, Drawing, Roving, Spinning.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	28		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	29		Written assignment	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	30		Types of yarn: i) Simple yarns	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	31		ii) Novelty yarns or fancy yarns : Grandrelle yarns, spiral yarns, Gimp yarns	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	32		Curl or loop yarns, spiral yarns, gimp yarns, curl or loop yarns	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	33		Knop or knot yarns, cloud or slub or flake yarns.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	34		Parts of a loom. Essential weaving operations: Shedding, Picking, Beating up (Battening), Taking up and Letting off.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
4	35		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	36		Classification of weaves: Plain weave and its variations	LM/ICT/IM	Text books, Reference books, PPTs	CO3

37		Twill weave and its variations	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38		Satin weave and its variations.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39		Revision	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	IV	Clothing for the Family: Socio-psychological aspects of clothing	LM/ICT/IM	Text books, Reference books, PPTs	CO4
41		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
42		Factors affecting selection of clothing: Age, season, income.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
43		Factors affecting selection of clothing: occasion, fashion.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44		Written assignment	LM/ICT/IM	Text books, Reference books, PPTs	CO4
45		Clothing for different age groups: infants	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47		Clothing for different age groups: children	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49		Clothing for different age groups: adolescents	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51		Clothing for different age groups: adults	LM/ICT/IM	Text books, Reference books, PPTs	CO4
52	V	Problems of the Indian consumer	LM/ICT/IM	Text books, Reference books, PPTs	CO5
7					

53	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5
54	Suggestions for solving problems of Consumers	LM/ICT/IM	Text books, Reference books, PPTs	CO5
55	Consumer responsibility	LM/ICT/IM	Text books, Reference books, PPTs	CO5
56	Guidelines for suitable selection of fabrics: Women's attire	LM/ICT/IM	Text books, Reference books, PPTs	CO5
57	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5
58	Doubt Clarification	LM/ICT/IM	Text books, Reference books, PPTs	CO5
59	Guidelines for suitable selection of fabrics: Children's clothing.	LM/ICT/IM	Text books, Reference books, PPTs	CO5
60	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5
61	Guidelines for suitable selection of fabrics: Men's ready-made shirts	LM/ICT/IM	Text books, Reference books, PPTs	CO5
62	Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO5
63	Guidelines for suitable selection of fabrics: Men's suits.	LM/ICT/IM	Text books, Reference books, PPTs	CO5
64	Written assignment	LM/ICT/IM	Text books, Reference books, PPTs	CO5
65	Revision	LM/ICT/IM	Text books, Reference books, PPTs	CO5

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	HOME SCIENCE	HOME SCIENCE
Course Name	CC – II, Food & Nutrition	CC – II, Food & Nutrition
Semester	I	I
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Miss.A Soumya Subhadarsini	Mrs.N.Swati

Total No. of periods: 53 (Theory) + 27 (Lab) = 80

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I	Basic Concepts in food and nutrition	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Basic terms used in study of food and nutrition- nutrition, nutrients	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Under nutrition, over nutrition, nutritional status	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	4		Classification of food- in accordance to their origin	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	5		According to chemical composition	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2	6		According to nutritive value	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	7		Functions of food- physiological, psychological and social	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	8		Quiz			CO1

	9		Carbohydrates- Composition, and Classification	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	10		Functions and dietary sources	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3	11		Daily requirement and clinical manifestations in deficiency/ excess	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	12		Proteins- Composition, and Classification	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	13		Functions and dietary sources	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	14		Daily requirement and clinical manifestations in deficiency/ excess	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	15		Lipids- Composition, and Classification	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4	16		Functions and dietary sources	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	17		Daily requirement and clinical manifestations in deficiency/ excess	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	18		Doubt Clearance			
	19	II	Vitamins and Minerals – Fat soluble vitamin A (Functions, Sources, requirement and deficiency/excess)	LM/ICT/IM	Text books, Reference books, PPTs	CO2



	20		Vitamin D (Functions, Sources, requirement and deficiency/excess)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
5	21		Vitamin E (Functions, Sources, requirement and deficiency/excess)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	22		Vitamin K (Functions, Sources, requirement and deficiency/excess)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	23		Water soluble vitamins- thiamin (Functions, Sources, requirement and deficiency/excess)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	24		Riboflavin (Functions, Sources, requirement and deficiency/excess)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	25		Niacin (Functions, Sources, requirement and deficiency/excess)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
6	26		Folate (Functions, Sources, requirement and deficiency/excess)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	27		Vitamin B12 (Functions, Sources, requirement and deficiency/excess)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	28		Vitamin C (Functions, Sources, requirement and deficiency/excess)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	29		Minerals- calcium (Functions, Sources, requirement and deficiency/excess)	LM/ICT/IM	Text books, Reference books, PPTs	CO2

	30		Iron (Functions, Sources, requirement and deficiency/excess)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
7	31		Zinc (Functions, Sources, requirement and deficiency/excess)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	32		Iodine (Functions, Sources, requirement and deficiency/excess)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	33		Doubt clearance			CO2
	34	III	Food groups- nutritional contribution and changes during cooking – cereals	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	35		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
8	36		nutritional contribution and changes during cooking – pulses	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	37		Continuation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	38		nutritional contribution and changes during cooking – fruits	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	39		nutritional contribution and changes during cooking – vegetables	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	40		nutritional contribution and changes during cooking – milk and milk products	LM/ICT/IM	Text books, Reference books, PPTs	CO3

9	41		nutritional contribution and changes during cooking – meat and poultry	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	42		nutritional contribution and changes during cooking – fish	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	43	IV	Doubt clearance	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	44		Methods of cooking- dry- advantages and disadvantages	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	45		Methods of cooking- moist - advantages and disadvantages	LM/ICT/IM	Text books, Reference books, PPTs	CO4
10	46		Methods of cooking- frying - advantages and disadvantages	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	47		Methods of cooking- microwave cooking - advantages and disadvantages	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	48		Enhancing the nutritional quality of foods – supplementation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	49		Enhancing the nutritional quality of foods – germination	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	50		Revision			CO4
11	51		Enhancing the nutritional quality of foods – fermentation	LM/ICT/IM	Text books, PPTs	CO4

	52		Enhancing the nutritional quality of foods – fortification	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	53		Written Assignment			CO4
<b>Core II LAB</b>						
1	54	i	Weights and measures- raw and cooked food – rice, dal	DM	Lab manual	CO5
	55					
	56					
2	57		Weights and measures- raw and cooked food – chappati, seasonal vegetables	DM	Lab manual	CO5
	58					
	59					
3	60		Weights and measures- raw and cooked food – egg	DM	Lab manual	CO5
	61					
	62					
4	63	Record Writing	DM	Lab manual	CO5	
	64					
	65					
5	66	ii	Understanding the principles of cooking involved and nutritional quality- cereals and pulses	DM	Lab manual	CO5
	67					
	68					
6	69	ii	Understanding the principles of cooking involved and nutritional quality- vegetables, milk and milk products	DM	Lab manual	CO5
	70					
	71					
7	72	iii	Understanding the principles of cooking involved and nutritional quality- baked products and snacks	DM	Lab manual	CO5
	73					
	74					
8	75	iv	Understanding the principles of cooking involved and nutritional quality- salads and fermented products	DM	Lab manual	CO5
	76					
	77					

9	78		Record writing	DM	Lab manual	CO5
	79					
	80					

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	ECONOMICS
Course Name	DSE-I, Public Economics
Semester	V
No of Weeks	10
No of Periods/week	8
Teacher's Name	Mrs. Mamatarani Sahoo

Total No. of periods: = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Public Finance: meaning and scope.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Distinction between public finance and private finance			
3		Public good vs private good	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Principle of maximum social advantages, Dalton's condition.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Pigou's condition of Maximum Social Advantages			
6		Musgrave's condition of maximum social advantage,	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Significance and limitation of principle of maximum social advantages	LM/ICT/IM	Text books, PPTs	
8		Market failure: meaning and sources	LM/ICT/IM	Text books, PPTs	CO1
9		Externalities- Positive and negative	LM/ICT/IM	Text books, PPTs	
10		Externalities and market failure	LM/ICT/IM	Text books, PPTs	CO1
11		Common property resources	LM/ICT/IM	Text books, PPTs	
12		Coase theorem	LM/ICT/IM	Text books, PPTs	

13	Public Budget: kinds of budget, economic and functional classification of the budget	LM/ICT/IM	Text books, PPTs	CO1
14	Balanced and unbalanced budget,	LM/ICT/IM	Text books, PPTs	CO1
15	Balance budget multiplier	LM/ICT/IM	Text books, PPTs	
16	Budget as an instrument of economic policy	LM/ICT/IM	Text books, PPTs	
<b>REMEDIAL CLASS</b>				
17	Market failure and role of government	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18	Economic and functional classification of the budget.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
19	Balanced budget multiplier	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>				
20	Excludable but non rival good as a source of market failure: Common property resources	LM/ICT/IM	Text books, Reference books, PPTs	CO1
21	Externalities and Coase theorem	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22	Private cost and benefits, social cost, social benefit	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>QUESTION ANSWER DISCUSSION</b>				
23	Economic and functional classification the budget		Text books, PPTs	
24	Market failure and role of government		Text books, PPTs	
<b>II</b>				
25	Public expenditure: meaning, classifications.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26	Canon's public expenditure		Text books, PPTs	
27	Public expenditure: causes of growth of public expenditure	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28	Effect of public expenditure		Text books, PPTs	
29	Principles of public expenditure: Wagner's law of increasing state activities	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30	Peacock- Wiseman hypothesis	LM/ICT/IM	Text books, Reference books, PPTs	CO2

QUESTION ANSWER DISCUSSION				
31	Classification and Canon's of public expenditure	LM/ICT/IM	Text books, Reference books, PPTs	CO2
32	Effects of public expenditure on economic stability	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33	Trends of public expenditure in India	LM/ICT/IM	Text books, Reference books, PPTs	CO2
34	Phases of industrialisation and validity of Wagner's law.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
35	Peacock- Wiseman thesis of government spending	LM/ICT/IM	Text books, Reference books, PPTs	CO2
36	<b>III</b> Public Revenue: sources	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	Taxation- meaning, features	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	Canons of taxation			
39	Classification of taxes	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Impact ad incidence of taxes	LM/ICT/IM	Text books, PPTs	CO3
41	Division of tax burden		Text books, PPTs	
42	The benefit principle of taxation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
43	Ability to pay principle of taxation- Subjective approach	LM/ICT/IM	Text books, Reference books, PPTs	CO3
44	Ability to pay principle of taxation_ Objective Approach, limitations	LM/ICT/IM	Text books, PPTs	
45	Effects of taxation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
46	Taxable capacity- Absolute and relative	LM/ICT/IM	Text books, Reference books, PPTs	CO3
47	Characteristics of a good tax system	LM/ICT/IM	Text books, PPTs	



48	Major trend in tax revenue of central government and state government in India	LM/ICT/IM	Text books, Reference books, PPTs	CO3
49	<b>REMEDIAL CLASS</b>			
50	Shifting of taxation, evasion of taxation, incidence of taxation, effects of taxation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
51	Factors affecting incidence and shifting of taxation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>Question answer discussion</b>				
52	Ability to pay principle taxation, incidence of taxation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
53	Classification of taxes	LM/ICT/IM	Text books, PPTs	
54	Division of tax burden, taxable capacity	LM/ICT/IM	Text books, PPTs	
55	Differences between tax and fees, fees and fine, Tax and special assessment	LM/ICT/IM	Text books, PPTs	
<b>DOUBT CLEAR CLASS</b>				
56	Single tax multiple tax, Proportional, progressive, regressive and degressive taxes	LM/ICT/IM	Text books, Reference books, PPTs	CO3
57	Division of tax burden	LM/ICT/IM	Text books, PPTs	
58	Major trends in tax revenue of central and state government in India.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
59	<b>IV</b> Public Debt: Meaning, public debt and private debt,	LM/ICT/IM	Text books, PPTs	CO4
60	Objectives of public debt	LM/ICT/IM	Text books, PPTs	
61	Sources and Effects of public debt	LM/ICT/IM	Text books, Reference books, PPTs	CO4
62	Burden of public debt- classical view	LM/ICT/IM	Text books, Reference books, PPTs	CO4
63	Burden of public debt- Recardian views	LM/ICT/IM	Text books, PPTs	
64	Debt burden: Keynesian view	LM/ICT/IM	Text books, Reference books, PPTs	CO4

65	Debt burden- post Keynesian views, shifting- inter generational equity	LM/ICT/IM	Text books, PPTs	
66	Debt burden and future generation	LM/ICT/IM	Text books, PPTs	
67	Methods of debt redemption.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68	Principle of Debt management	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69	Principle of Debt management	LM/ICT/IM		
70	Taxes vs public debt	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71	Public debt and economic development	LM/ICT/IM		
<b>REMEDIAL CLASS</b>				
72	Public debt and economic development, redemption of public debt	LM/ICT/IM	Text books, PPTs	CO4
73	Measurement of the burden of public debt	LM/ICT/IM	Text books, PPTs	CO4
74	Internal and external sources of public debt, economic effects of public debt	LM/ICT/IM	Text books, PPTs	
<b>DOUBT CLEAR CLASS</b>				
75	Debt burden and future generation	LM/ICT/IM	Text books, PPTs	
76	Principle of debt management, Shinking fund , conversion of loans, terminal annuities	LM/ICT/IM	Text books, PPTs	CO4
77	Advantages of debt redemption, limit to public debt, choice between taxation and borrowing	LM/ICT/IM	Text books, PPTs	
<b>QUESTION ANSWER DISCUSSION</b>				
78	Inter-generational equity	LM/ICT/IM	Text books, PPTs	CO4
79	Gross debt and net debt, Redeemable and irredeemable public debt	LM/ICT/IM	Text books, PPTs	CO4
80	Redemption of public debt	LM/ICT/IM	Text books, PPTs	

M – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	ECONOMICS
Course Name	Hard Core 101(Micro Economics)
Semester	I
No of Weeks	10
No of Periods/week	8
Teacher's Name	

Total No. of periods: = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Concept of Utilities	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Equilibrium of the consumer in one commodity model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Equilibrium of the consumer in more than one commodity model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		The Indifference Curve Approach: Preference and Indifference	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Slutsky's Theorem-Substitution and Income effect	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Demand for Complementary and Substitutes Goods-Ordinary and Compensated Demand Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Revealed Preference Hypothesis: Strong Axiom and Weak Axiom	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Consumer Surplus – Concept, Measurement and Economic Applications	LM/ICT/IM	Text books, Reference books, PPTs	CO1

<b>REMEDIAL CLASS</b>					
9	Preference Zone and Indifference Zone	LM/ICT/IM	Text books, Reference books, PPTs	CO1	
10	Derivation of utility function from indifference curves	LM/ICT/IM	Text books, Reference books, PPTs	CO1	
11	Properties of Indifference Curve	LM/ICT/IM	Text books, Reference books, PPTs	CO1	
<b>DOUBT CLEARING CLASS</b>					
12	Axiom of Dominance & Axiom of Convexity	LM/ICT/IM	Text books, Reference books, PPTs	CO1	
13	Indifference curves: some pathological cases	LM/ICT/IM	Text books, Reference books, PPTs	CO1	
14	Lexicographic Orderings	LM/ICT/IM	Text books, Reference books, PPTs	CO1	
<b>QUESTION ANSWER DISCUSSION</b>					
15	Perfect Substitute & Perfect Complementary Goods: Decomposition of price effect.				
16	Problems on Consumer Behavior				
<b>UNIT-II</b>					
17	Modern Utility Analysis	LM/ICT/IM	Text books, Reference books, PPTs	CO2	
18	The Bernoulli Hypothesis	LM/ICT/IM	Text books, Reference books, PPTs	CO2	
19	The Friedman's Savage Hypothesis	LM/ICT/IM	Text books, Reference books, PPTs	CO2	
20	Consumer's Choice Under risk & Uncertainty	LM/ICT/IM	Text books, Reference books, PPTs	CO2	
21	The NeuMann Morgenstern Theorem	LM/ICT/IM	Text books, Reference books, PPTs	CO2	
22	Asymmetric Information & Market Failure	LM/ICT/IM	Text books, Reference books, PPTs	CO2	
23	Market for Lemon, Adverse Selection	LM/ICT/IM	Text books, Reference books, PPTs	CO2	

24	Moral Hazard Problems & Its Effects	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>				
25	Theory of Expected Utility	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26	Measurement of Risk	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27	Asymmetric Information & Adverse Selection	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>DOUBT CLEARING CLASS</b>				
28	The Principal Agent Problem	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29	The Market for Lemon and Peaches	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30	A Model of Job Market Signaling	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>QUESTION ANSWER DISCUSSION</b>				
31	Gresham's Law			
32	Maximisation of Expected Utility under Uncertainty			
<b>UNIT III</b>				
III	Isoquants: Concept, Derivation, Properties	LM/ICT/IM	Text books, Reference books, PPTs	CO3
33				
34	Isocost line and its derivation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	Producer's equilibrium	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	Returns to a Variable Factor ( Short run production function) and Two Variable Factors ( Long run production function).	LM/ICT/IM	Text books, PPTs	CO3
37	Linear Homogeneous Production Function	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>REMEDIAL CLASS</b>				

38	Area of Operation in Long Run- Ridge Lines	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	Cobb-Douglas Production Function & Its Properties			
40	CES Production Function	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41	Homothetic Production Function	LM/ICT/IM	Text books, Reference books, PPTs	CO3
42	Technical Progress and Production Function	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>DOUBT CLEARING CLASS</b>				
43	Relation between returns to scale and returns to a single factor	LM/ICT/IM	Text books, Reference books, PPTs	CO3
44	MRS, MTRS & MRPTS with Diagrams	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>Question answer discussion</b>				
45	Maximization of Output subject to a Cost Constraint	LM/ICT/IM	Text books, Reference books, PPTs	CO3
46	Minimization of Cost subject to a given level of output	LM/ICT/IM	Text books, Reference books, PPTs	CO3
47	Optimum allocation of resources and producer's equilibrium in a two good system.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
48	Generalized CES Production Function	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>UNIT-IV</b>				
49	Cost- Concepts & Types	LM/ICT/IM	Text books, Reference books, PPTs	CO3
50	The Learning Curve	LM/ICT/IM	Text books, Reference books, PPTs	CO3
51	Algebraic Forms of Cost Functions-Cubic, Quadratic, Linear Cost Functions;	LM/ICT/IM	Text books, PPTs	CO4
52	Derivation of Cost Functions from Production Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO4

53	Revenue: Derivation of AR and MR from TR	LM/ICT/IM	Text books, Reference books, PPTs	CO4
54	Price Elasticity of Demand	LM/ICT/IM	Text books, Reference books, PPTs	CO4
55	Reconciliation Between Total and Marginal Approach	LM/ICT/IM	Text books, Reference books, PPTs	CO4
56	AR, MR, TR and Demand.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>REMEDIAL CLASS</b>				
57	Cost Functions of the Firm	LM/ICT/IM	Text books, PPTs	CO4
58	Demand and revenue function of a competitive firm	LM/ICT/IM	Text books, PPTs	CO4
59	Modern Theory of cost	LM/ICT/IM	Text books, PPTs	CO4
<b>DOUBT CLEAR CLASS</b>				
60	Dynamic elements of Cost: The role of experience	LM/ICT/IM	Text books, PPTs	CO4
61	Cost Elasticity of Output	LM/ICT/IM	Text books, PPTs	CO4
62	Cobb-Douglas Cost Function	LM/ICT/IM	Text books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>				
63	Determination of expansion path equation and total cost function diagrammatically			CO4
64	LAC curve is the envelop of SAC Curve but LMC curve is not the envelop of SMC Curve			CO4
<b>UNIT-V</b>				
65	Market Structure: Perfect Competition– Characteristics	LM/ICT/IM	Text books, PPTs	CO5
66	perfect competition vs pure competition	LM/ICT/IM	Text books, PPTs	CO5
67	Short run equilibrium of the Firm and Industry	LM/ICT/IM	Text books, PPTs	CO5
68	Long run equilibrium of the Firm and Industry	LM/ICT/IM	Text books, PPTs	CO5
69	Monopoly – Concept and Features Short run Equilibrium	LM/ICT/IM	Text books, PPTs	CO5
70	Long run Equilibrium under Monopoly Market	LM/ICT/IM	Text books, PPTs	CO5
71	Price Discrimination and Dumping	LM/ICT/IM	Text books, PPTs	CO5

72	Bilateral Monopoly- Concept, Equilibrium under bilateral monopoly, a critical assessment.	LM/ICT/IM	Text books, PPTs	CO5
<b>REMEDIAL CLASS</b>				
73	Comparison between Perfect Competition and Monopoly	LM/ICT/IM	Text books, PPTs	CO5
74	Efficiency of Monopoly Market	LM/ICT/IM	Text books, PPTs	CO5
75	Measures of Monopoly Power	LM/ICT/IM	Text books, PPTs	CO5
<b>DOUBT CLEAR CLASS</b>				
76	Optimum Zone of operation of a monopolist	LM/ICT/IM	Text books, PPTs	CO5
77	Mathematical Derivation of Equilibrium Condition	LM/ICT/IM	Text books, PPTs	CO5
78	Bilateral Monopoly and its equilibrium	LM/ICT/IM	Text books, PPTs	CO5
<b>QUESTION ANSWER DISCUSSION</b>				
79	Prove that elasticity and price are inversely related			CO5
80	Taxation of Monopoly and Its Influences			CO5

M – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method  
(Classroom experiment/ Data analysis/ Model)



SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	Teacher Education	Teacher Education
Course Name	PE-1	PE-1
Year	1 <sup>st</sup>	1 <sup>st</sup>
No of Weeks	20	20
No of Periods/week	6	6
Teacher's Name	Dr. Bidulata Sahoo	Ms. Tanushree Mohanty

Total No. of Periods: = 80

Period	Unit	Topics	Method of Teaching	Source of Teaching Materials	Corresponding COs
1.	I	Meaning of Education: derivational, narrow and wide	Discussion	Text books, Reference books, ppts	CO1
2.		Eastern viewpoints of Education	Comparative study	Text books, Reference books, ppts	CO1
3.		Western viewpoints of Education	Comparative study		
4.		Process of education: Bi-polar, tri-polar,	Discussion	Text books, Reference books, ppts	CO1
5.		Multi-polar process of education	Discussion/Question answer	Text books, Reference books, ppts	CO1
6.			<b>Remedial class</b>		
7.		Education as Life-long process	Discussion/analytical	Text books, Reference books, ppts	CO1
8.		Modes of education: formal/institutional,	Analytical method	Text books, Reference books, ppts	CO1
9.		Informal/incidental	Analytical method	Text books, reference books, ppts	CO1
10.			<b>Doubt clearing class</b>		

11.	Non-formal mode of education	Discussion method	Text books, Reference books, ppts	CO1
12.	Aims of education: Individual aim	Discussion/Project	Text books, Reference books, ppts	CO1
13.	Social aim of education	Discussion		
14.	Aims of education according to Secondary Education Commission (1952- 1953), Education commission (1964-1966),	Discussion/assignment	Text books, Reference books, ppts	CO1
15.		Discussion/assignment	Text books, reference books, ppts	CO1
16.	National Policy on Education (1986/92),	Lecture method/discussion	Text books, Reference books, ppts	CO1
17.	National curriculum framework (2005)	Lecture method/ICT/analytical method	Text books, reference books, ppts	CO1
18.	Comparing different commissions on the basis of aims, method, curriculum	Comparative study	Text books, reference books, ppts	CO1
19.		CLASS TEST		
20.		Remedial class		
21.	Philosophy and Education: Meaning and relationship;	Debate-discussion/analytical	Text books, Reference books, ppts	CO2
22.	Influence of philosophy in determining aims, curriculum and methods of Education with reference to major schools of Educational Philosophy – Idealism,	Debate-discussion/analytical	Text books, Reference books, ppts	CO2
23.	Naturalism	Debate-discussion/analytical	Text books, Reference books, ppts	CO2
24.	Pragmatism	Debate-discussion/analytical	Text books, Reference books, ppts	CO2
25.	Sociology and Education: Meaning and relationship;	Debate-discussion/analytical	Text books, Reference books, ppts	CO2
26.	Implications of Sociology for aims, curriculum and methods of Education	Debate-discussion/analytical	Text books, Reference books, ppts	CO2
27.	Interactionist perspective theory of sociology	Debate-discussion/analytical	Text books, Reference books, ppts	CO2
28.	Conflict perspective theory of sociology	Debate-discussion/analytical	Text books, Reference books, ppts	CO2

29.	Functionalist perspective theory of sociology	Debate-discussion/analytical	books, ppts	CO2
30.	Educational Implications of Bandura	Debate-discussion/analytical	Text books, Reference books, ppts	CO2
31.	Educational Implications of Kohlberg	Debate-discussion/analytical	Text books, Reference books, ppts	CO2
32.	<b>Question answer discussion</b>			
33.	Psychology and Education: Meaning and relationship; Implications of psychology for Education in organizing contents	Lecture method/discussion	Text books, Reference books, ppts	CO2
34.	Understanding the teaching-learning process (understanding learner, teacher characteristics and pedagogy)	Lecture method/discussion	Text books, Reference books, ppts	CO2
35.	Educational thoughts of Gandhi,	Lecture method/discussion/assignment	Text books, Reference books, ppts	CO2
36.	Educational thoughts of Tagore	Lecture method/discussion/assignment	Text books, Reference books, ppts	CO2
37.	Educational thoughts of Sri aurobindo	Lecture method/discussion/assignment	Text books, ppts	Co2
38.	Educational thoughts of Rousseau	lecture method /discussion/assignment	Text books, Reference books, ppts	CO2
39.	Educational thoughts of Dewey with reference to aims, curriculum and methods	lecture method /discussion/assignment	Text books, Reference books, ppts	CO2
40.	Educational thoughts of Freire with reference to aims, curriculum and methods	lecture method /discussion/assignment	Text books, Reference books, ppts	CO2
41.		Class test		
42.	<b>Remedial class</b>			
43.	School as a formal agency of Education: Purpose (Socio-cultural)	Discussion/Project	Text books, Reference books, ppts	CO3
44.	School-Location, Infrastructure and time	Discussion/Project	Text books, Reference books, ppts	CO3
45.	Stakeholders (Primary and Secondary stakeholders) and Programmes	Discussion/Project	Text books, reference books, ppts	CO3

46.	School Activities: Curricular and other curricular activities	Discussion/Project	Text books, Reference books, ppts	CO3
47.	Components, mode of transaction and organization	Project/demonstration	Text books, Reference books, ppts	CO3
48.	School Environment: Learner and Learning-friendly	Observation	Text books, Reference books, ppts	CO3
49.	<b>Question answer discussion</b>			
50.	Characteristics and components; strategies for ensuring learning-friendly environment	Assignment/Project	Text books, Reference books, ppts	CO3
51.	Resource requirements: knowledge, human, material, infrastructural, technological	Discussion/ lecture method	Text books, reference books, ppts	CO3
52.	<b>Presentation by fast learners</b>			
53.	Their sources and utilization	Discussion	Text books, Reference books, ppts	CO3
54.	School-Community Interface: Importance, Aspects of interface,	Discussion/ Lecture method	Text books, Reference books, ppts	CO3
55.	Strategies for strengthening their inter-relationships, and their roles in building learning communities	Discussion/ Lecture method	Text books, reference books, ppts	CO3
56.	Society as a system;	Discussion/ Lecture method	Text books, Reference books, ppts	CO4
57.	Education and culture as sub-systems; Their interrelationships	Discussion/ Lecture method	Text books, ppts	CO4
58.	<b>Remedial class</b>			
59.	Education as an instrument of social change: Meaning, dimensions	Discussion/ Lecture method	Text books, Reference books, ppts	CO4
60.	Types of social change	Discussion/Lecture method	Text books, Reference books, ppts	CO4
61.	Karl Marx theory of Sociology	Discussion/Lecture method	Text books, Reference books, ppts	CO4
62.	Max Weber's theory of Sociology	Discussion/lecture method	Text books, Reference books, ppts	CO4
63.	Role of education effecting social change and control; Social change influencing education	Discussion/lecture method	Text books, Reference books, ppts	CO4

64.	Education and Modernization: Meaning of modernization; Characteristics of modernized society	Discussion/lecture method/assignment	Text books, Reference books, ppts	CO4
65.	Adaptive demands of modernization and role of education;	Discussion/lecture method/assignment	Text books, Reference books, ppts	CO4
66.	Education and culture: Meaning and elements of culture;;	Discussion/lecture method	Text books, Reference books, ppts	CO4
67.	Role of education for preservation, transmission and enrichment of culture	Discussion/lecture method/assignment	Text books, Reference books, ppts	CO4
68.	Influence of culture on education	Discussion/analytical method	Text books, Reference books, ppts	CO4
69.	Promotion of meaningful learning	Discussion/analytical method	Text books, Reference books, ppts	CO4
70.	<b>Remedial class</b>			
V	National development – Dimensions and Indicators	Lecture method/discussion	Text books, ppts	CO5
71.	Education as an investment for Human Resource and Socio-economic Development	Lecture method/discussion	Text books, ppts	CO5
72.	Education for sustainable development (including sustainable environment)	Discussion/lecture method	Text books, Reference books, ppts	CO5
73.	Education for inclusive development- Dimensions (social, economic, )	Lecture cum discussion/project	Text books, Reference books, ppts	CO5
74.	Education for inclusive development-cultural, technological, spatial dimensions	Lecture cum discussion/project	Text books, Reference books, ppts	CO5
75.	Strategies for promoting inclusion	Discussion/assignment	Text books, Reference books, ppts	CO5
76.	Role of Education to meet the situations arising out of conflicts, insurgencies, national calamities and disasters	Discussion and analysis	Text books, Reference books, ppts	CO5
77.	<b>Remedial class</b>			
78.	<b>Question answer discussion</b>			
79.	<b>Test</b>			
80.	<b>Test</b>			

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	Teacher Education	Teacher Education
Course Name	PE-2	PE-2
Year	1st	1st
No of Weeks	20	20
No of Periods/week	6	6
Teacher's Name	Miss Pranati Priyadarshini,	Dr. Bidulata Sahoo

Total No. of periods: 41 (Theory) + 27 (Lab) +12 (Others) = 80

Unit	Topics	Method of Teaching	Source of Teaching Materials	Corresponding COs
1.	Growth and development – Concept and General Principles of Development;	Discussion/analytical method	Text books, reference books, ppts	CO1
2.	Difference between growth and development	Discussion/analytical method	Text books, reference books, ppts	CO1
3.	Stages of development - concept (sequential, structural identity,	Discussion/activity learning	Text books, reference books, ppts	CO1
4.	Stage of infancy	Discussion/collaborative learning	Videos of infants	CO1
5.	Stage of childhood- early childhood characters	Discussion/collaborative learning	Videos showing different activities of child	CO1
6.	Stage of childhood- late childhood characters	Discussion/cooperative learning	Text books, reference books, ppts	CO1
7.		REMEDIAL CLASS		

8.	Stage of adolescence-early adolescence	Discussion/flipped classroom/experiential learning	Film strips	CO1, CO2
9.	Middle adolescence stage	Discussion/flipped classroom/experiential learning	Film strips,youtube videos,reference books	CO1, CO2
10.	Late adolescence	Discussion/flipped classroom/experiential learning	Film strips,youtube videos,reference books	CO1, CO2
11.		Doubt clearing class		
12.	Educational provisions for adolescence	Discussion/collaborative learning		CO1, CO2
13.	Stage of adulthood	Discussion/storytelling	Textbooks, reference books	CO1, CO2
14.		CLASS TEST		
15.		<b>Remedial class</b>		
16.	Contexts of development: socio- economic, cross-cultural	Discussion/project	Text books, reference books, videos of harappa civilisation	CO1, CO2
17.	Psychological, and Anthropological context of development	Discussion/assignment	Text books, reference books, ppts	CO1, CO2
18.		<b>Doubt clearing class</b>		
19.	Factors influencing development: heredity, environment	Discussion/assignment/project	Text books, reference books, ppts	CO1, CO2
20.	Impact of nutrition, childrearing practices, socio economic status, siblings and peers	Discussion/assignment	Text books, reference books, ppts	CO1, CO2
21.		CLASS TEST		
22. II	Socio-Emotional Development: Erickson's theory of psycho-social development;	Discussion/collaborative learning/peer learning	Text books, reference books, ppts	CO3, CO4, CO5

23.	Educational implications of Erickson's theory	Discussion/collaborative learning/peer	Text books, reference books, ppts	CO3, CO4, CO5
24.	Theory of development of social play- Jean Piaget	Discussion/collaborative learning/peer learning	Text books, reference books, ppts	CO3, CO4, CO5
25.	Educational implications of Theory of development of social play- Jean Piaget	Discussion/cooperative	Text books, reference books, ppts	
26.	<b>Remedial class</b>			
27.	Conceptual and Language development theories of Vygotsky	Discussion/brainstorming	Text books, reference books, ppts	CO3, CO4, CO5
28.	Language development theory of Noam Chomsky; its educational implications	Discussion/project	Text books, reference books, ppts	CO3, CO4, CO5
29.	Developmental characteristics during childhood: Physical, social	Discussion/project/assignment	Text books, reference books, ppts, filmstrips	CO3, CO4, CO5
30.	Cognitive, Emotional development during childhood	Discussion/project/assignment	Text books, reference books, ppts	CO3, CO4, CO5
31.	Role of schools in development	Discussion, pupil presentation	Text books, reference books, ppts	CO3, CO4, CO5
32.	Role of teachers	Discussion, assignment	Reference books, ppts	CO3, CO4, CO5
33.	<b>Question answer discussion</b>			
34.	REMEDIAL CLASS			
35. III	Growth and Characteristics during early adolescence –development during adolescence	Discussion/assignment	Text books, reference books, ppts	CO6
36.	Characteristics during late adolescence – Physical, Social	Role-play/discussion	Text books, reference books, ppts, videos of adolescence group	CO6
37.	Cognitive and Language development during adolescence	Discussion/assignment		CO6
38.	Emotional and Moral development during adolescence	Discussion/project		CO6
39.	Challenges of adolescence	Role-play	Text books, reference books, ppts, videos of	CO6



					delinquency	
40.				CLASS TEST		
41.				Remedial class		
42.		Context-specific developmental tasks based on specific needs and problems during adolescence;		Discussion/project	Text books, ppts	CO6
43.		Problems of adjustment		Discussion/assignment	Reference books/assignment	CO6
44.		Role of school in addressing the challenges of developmental needs of adolescents in various contexts		Mock parliament	Reference books, ppts	CO6
45.		Role of teacher in addressing the challenges of developmental needs of adolescents in various contexts		Discussion/brainstorming	Reference books, ppts	CO6
46.				<b>Remedial class</b>		
47.	IV	Individual differences due to cognitive attributes		Panel discussion/debate	Text books, reference books, ppts	CO7
48.		Individual differences due to social attributes		Discussion/Collaborative learning		CO7
49.		Individual differences due to emotional attributes		Collaborative learning/discussion		CO7
50.		Individual differences in learning in terms of mental ability, rate of learning, motivation to learn		Cooperative learning	Text books, reference books, ppts	CO7
51.		learning style, attitude recognizing the uniqueness of the learner		Discussion/collaboration	Text books, reference books, ppts	CO7
52.		Learners with different mental abilities: intelligence		Demonstration/discussion	Text books, reference books, ppts	CO7
53.		emotional intelligence- concept, nature and assessment		Discussion,	Text books, reference books, ppts	CO7
54.				Remedial class		
55.		Creativity- concept, nature and assessment		Discussion/brainstorming	Text books, reference	CO7

56.	Educational implications to develop creativity	Discussion/brainstorming	books, ppts Text books, reference books, ppts	CO7
57.	Managing individual differences in learning – learning needs of different types of learners gifted and backward learners	Discussion/assignment	Text books, reference books, ppts, film strip of taren zameen par	CO7
58.	fast learners-characteristics and measures			CO7
59.	Slow learners-characteristics and measures	Discussion/assignment	Text books, reference books, ppts	CO7
60.	<b>Question answer discussion</b>			
61.	V Identification of learning needs of children in different stages and contexts of development (socio-economic, cultural, geographical, political, etc) .	Project/analytical	Text books, reference books, ppts	CO8
62.	Learning needs of learners in early childhood	Discussion/assignment	Text books, reference books, ppts	CO8
63.	Learning needs of learners in late childhood	Discussion/assignment	Text books, reference books, ppts	CO8
64.	Learning needs of learners in early adolescence	Discussion/project	Text books, reference books, ppts	CO8
65.	Learning needs of learners in middle adolescence	Discussion/brainstorming	Text books, reference books, ppts	CO8
66.	Learning needs of learners in late adolescence	Discussion/assignment	Text books, reference books, ppts	CO8
67.	Organizing learning in Identification of learning needs of CWSN	Assignment/analytical	Flash cards, film strips	CO8
68.	Strategies to meet the learning needs of children in school and outside	Field visit/discussion	Text books, reference books, ppts	CO8
69.	<b>Presentation by learners</b>			
70.	Organizing learning in heterogeneous classroom – ability grouping, heterogeneous grouping,	Demonstration-discussion	Reference books, text books	CO8

71.	Organizing learning in- grouping by interest and grouping by choice.	Collaborative/cooperative learning	Reference books, text books	CO8
72.	addressing individual differences in classroom – individual guided learning	Peer learning, co-operative and collaborative learning	Text books, reference books, ppts	CO8
73.	Culture-responsive teaching-learning approaches to meet the learning needs of children in different contexts of development	Discussion/collaborative learning	Text books, reference books, ppts	CO8
74.	Learning issues	Discussion/assignment	Text books, reference books, ppts	CO8
75.	Gender inequality	Analytical	Text books, reference books, ppts	CO8
76.		<b>Remedial class</b>		
77.		<b>REVISION</b>		
78.		<b>REMEDIAL CLASS</b>		
79.		<b>QUESTION ANSWER DISCUSSION</b>		
80.		<b>TEST</b>		

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	Teacher Education	Teacher Education
Course Name	PE-3	PE-3
Semester	1 <sup>st</sup>	1 <sup>st</sup>
No of Weeks	20	20
No of Periods/week	5	5
Teacher's Name	Dr. Bidulata Sahoo,	Ms Tanushree Mohanty

Total No. of periods: 41 (Theory) + 27 (Lab)+12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1.	I	Meaning, nature of learning	LM	Text books, Reference books, PPTs	CO1
2.		Dimensions of learning	LM/DISCUSSION	Text books, Reference books, PPTs	CO1
3.		Learning as a process and as an outcome	LM/ICT/INDUCTION	Text books, Reference books, PPTs	CO1
4.		Basic conditions of learning: Maturation, Readiness Attention	LM/DEMONSTRATIO N	Text books, Reference books, PPTs	CO1
5.		<b>REMEDIAL CLASS</b>			

6.	Basic conditions of learning: Motivation, Fatigue, materials, learning styles	LM/ICT/DISCUSSION	Text books, Reference books, PPTs	CO1
7.	Basic conditions of learning: learning styles, tasks and methods	LM/ICT/PANEL DISCUSSION	Text books, Reference books, PPTs	CO1
8.	Types/ categories of learning: Gagne's categories of learning	DISCUSSION, ASSIGNMENT		
9.	Types/ categories of learning: Gagne's categories of learning	LM/ICT/PROJECT	Text books, Reference books, PPTs	CO1
10.	<b>DOUBT CLEARING CLASS</b>			
11.	Behaviouristic theories: Classical conditioning theory of Pavlov	ICT/observation	Text books, Reference books, PPTs	CO2
12.	Operant conditioning theory of skinner	LM/ICT/experiment/problem solving	Text books, Reference books, PPTs	CO2
13.	Educational implication	PROBLEM SOLVING METHOD	Text books, Reference books, PPTs	CO2
14.	Social cognitive theories: Social learning theory of Bandura	ICT/PROJECT/demonstration	Text books, Reference books, PPTs	CO2
15.	Educational implication	LM/PROJECT		
16.	Advance Organizer theory of Ausubel	DISCOVERY, COOPERATIVE		

17.	Educational implications of Advance Organizer theory	PROJECT/ASSIGNMENT/ROLE PLAY	CO2
18.	Constructivist theories: Radical constructivism of Jean Piaget	MOCK PARLIAMENT	CO2
19.	Educational implication of radical constructivism	ICT/INSTRUCTIONAL LEARNING	CO2
20.	Social constructivism of Lev Vgotsky	DEMONSTRATION	Text books, Reference books, PPTs
21.	Educational implications of social constructivism	DEMONSTRATION	Text books, Reference books, PPTs
22.	Educational implications of social constructivism	ICT/PRESENTATION	Text books, Reference books, PPTs
23.	<b>REMEDIAL CLASS</b>		
24.	Meaning and attributes - active or manipulative, constructive, reflective,	DEMONSTRATION/DISCUSSION	Text books, Reference books, PPTs
25.	Intentional, complex, contextual, collaborative, and conversational;	LM/ICT/HARBARTIAN	Text books, Reference books, PPTs
26.	Learning as meaning making: Concept and process of meaning making; Learner as meaning maker	SELF LEARNING	Text books, Reference books, PPTs

27.	Characteristics of learner as meaning maker – curiosity, interest, active engagement:	INDUCTIVE/DEDUCTIVE	Text books, Reference books, PPTs	CO3
28.	Role of inquiry in meaning making	ROLE PLAY, INDUCTIVE	Text books, Reference books, PPTs	CO3
29.	Meaningful Learning as Experiencing: Observing, Perceiving and internalizing	DISCOVERY, PROJECT		CO3
30.	Deriving meaning from experiences;			CO3
31.	Facilitating Meaningful Learning in and out of school: strategies and role of teacher.			CO3
32.	<b>QUESTION ANSWER DISCUSSION</b>			
33.	Teaching and Learning: Teaching as instructing vs Teaching as facilitating learning;	LM/ICT/ASSIGNMENT	Text books, Reference books, PPTs	CO4
34.	Teaching as empowering learners;	LM/ICT/DISCUSSION/exhibition	Text books, Reference books, PPTs	CO4
35.	Bruner's Model of Teaching for meaningful learning - process and implications for classroom instruction in promoting meaningful learning	DISCUSSION	IMAGES AND VIDEOS OF FILM STRIPS, SLIDES	CO4

36.	Teaching in Diverse Classrooms – Paradigm shift in organizing learning:	LM/ICT/PEER TEACHING	Text books, Reference books, PPTs	CO4
37.	Teacher centric to learner centric, and to learning centric (characteristics and process)	LM/ICT/COLLABORATIVE LEARNING	Text books, PPTs	CO4
38.	<b>REEDIAL CMLASS</b>			
39.	Grouping for facilitating learning- Ability Grouping, Heterogeneous Grouping, Grouping by interest, Grouping by Choice;	LM/RUBRICS/PORTFOLIO	Text books, Reference books, PPTs, SCALES OF MEASUREMENTS	CO4
40.	Teaching for motivating towards learning- types of motivation and teaching strategies	LM/PEER LEARNING	Text books, Reference books, PPTs	CO4
41.	Modes of teaching-learning – face to face and distance mode	LM/ICT/GROUP DISCUSSION/field trips	Text books, References	CO4
42.	Oral-aural and digital, individualized and group-based	COLLABORATION/COOPERATION	Text books, Reference books, PPTs	CO4



43.	Individualizing instruction in regular classroom	LM/ICT/DISCUSSION	Text books, Reference books, PPTs	CO4
44.	<b>QUESTION ANSWER DISCUSSION</b>			
V	Importance and Characteristics of teaching profession;	LM/COOPERATIVE LEARNING	Text books, Reference books, PPTs	CO5
45.				
46.	Characteristics of an effective teacher	DEMONSTRATION	Text books, Reference books, PPTs	CO5
47.	<b>PRESENTATION BY FAST LEARNERS</b>			
48.	Teacher Preparation: Needs, components and modes of pre-service teacher education	DEMONSTRATION	Text books, Reference books, PPTs	CO5
49.	Programmes for different school levels (pre-school, elementary, secondary, higher secondary)	LM/ICT/PROBLEM SOLVING	Text books, Reference books, PPTs, articles	CO5
50.	Teacher Development: Needs and Stages – Survival, Consolidation, Renewal and Maturity	LM/ICT/IM	Text books, Reference books, PPTs, project report	CO5
51.	Continuing Professional Development of In-service	LM/RUBRICS	Text books, Reference books, PPTs, portfolio report	CO5

52.	Teachers - Needs and Strategies	LM/ICT/OBSERVATION/portfolio	Text books, PPTs	CO5
53.	<b>REMEDIAL CLASS</b>			
54.	Teachers' Professional Ethics and Accountability: Meaning, importance and dimensions	LM/ICT/OBSERVATION	Text books, Reference books, PPTs	CO5
55.	Recommendations of NPE 1986: Strategies for ensuring teacher accountability	LM/RUBRICS/PORTFOLIO	Text books, Reference books, PPTs	CO5
56.	Recommendations of NPE 1992: Strategies for ensuring teacher accountability	LM/ACTION RESEARCH	Text books, Reference books, PPTs, action research report	CO4
57.		LM/SELF LEARNING/COOPERATIVE	Text books, Reference books, PPTs	CO4
58.		LM/ICT/IM	Text books, Reference books, PPTs	CO4
59.	<b>REMEDIAL CLASS</b>			
60.		COLLABORATIVE, COOPERATIVE approach	Text books, PPTs	CO4
61.		LM/ICT/DISCUSSION	Text books, PPTs	CO4

62.			ACTIVITY, PANEL DISCUSSION, PROJECT/PORTFOLIO	REFERENCE BOOKS	
63.			Demonstration cum discussion, project	CHART OF CELL, IMAGE OF ROBERT HOOK	
64.			ANALYSIS, SYNTHESIS	TABLE OF BALANCE DIET	
65.			DISCOVERY/DISCUSSION/BRAIN STORMING	MODEL OF LUNGS, CHART OF RESPIRATION	
66.			Demonstration, experimentation	CHART OF EXCRETORY SYSTEM	
67.			PROJECT/PORTFOLIO/discussion	IMAGES OF DIFFERENT TYPES OF REPRODUCTION, VIDEOS OF ASEXUAL REPRODUCTION IN PLANTS	
68.			Assignment/brainstorming	TEXT BOOK ,REFERENCE BOOKS	
69.			DEMONSTRATION, DISCOVERY, PROBLEM SOLVING	Textbook, VIDEO OF SMOG IN DELHI, IMAGES OF WATER POLLUTION	

70.			PEER LEARNING, PROBLEM SOLVING, DISCOVERY	CHART OF POND ECOSYSTEM, FOREST ECOSYSTEM	
71.			DEDUCTIVE, PROBLEM SOLVING, PROJECT	Text book ,reference books, CHART OF ENERGY FLOW	
72.			Problem solving, collaborative	Text books, reference books, CHAR OF NITROGEN CYCLE	
73.			Experimentation, demonstration/a-v aids	IMAGE AND VIDEOS OF NATURAL CALAMITIES, LANDSLIDES	
74.			DM	Lab manual	CO5
75.			DM	Lab manual	CO5
76.			DM	Lab manual	CO5
77.			DM	Lab manual	CO5
78.			DM	Lab manual	CO5
79.			DM	Lab manual	CO5
80.			DM	Lab manual	CO5
81.			DM	Lab manual	CO5
82.			<b>REMEDIAL CLASS</b>		
83.			<b>QUESTION ANSWER DISCUSSION</b>		

84.

**TEST**

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN PE-4

Session: 2024-25

Department	TEACHER EDUCATION	TEACHER EDUCATION
Course Name	PE-4 Unit-2,3,4,5	PE-4 Unit -1
1 <sup>st</sup> Year		
No of Weeks	20	08
No of Periods/week	4	1
Teacher's Name	Mrs. Niharabala Majhi	Dr.Bidulata Sahoo

Total No. of periods: 70 (Theory) +10 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding Cos
1,2	2	Constitutional Provisions & Values	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO2
3,4		Constitutional Provisions & Values	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO2
5		NPE-1968	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO2
6,7		NPE-1986	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO2
8		<b>REMEDIAL CLASS</b>			
9,10		SSA	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO2
11,12		RMSA	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO2
13,14		State Policy on Multi Lingual Education in Odisha	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO2

15		<b>DOUBT CLEARING CLASS</b>			
16		Problems in Implimentation of the policies...	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO2
17,18	3	Child Rights & Human Rights	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO3
18,19		Human Rights	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO3
20,21,22		Child Rights	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO3
23,24		Child Rights	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO3
25,26,27		Initiatives for protection of childs rights ,RTE Act-2009	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO3
28,29,30,31		RTE Act-2009	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO3
32		<b>REMEDIAL CLASS</b>			
33,34	4	Global Concerns for Education	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO4
35,36		Environmental Education	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO4
37		Environmental Education	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO4
38,39		Life Skill Education	LM/ICT/IM/DM	Text books, Reference	CO4

				books, PPTs	
40		Life Skill Education	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO4
41		<b>QUESTION ANSWER DISCUSSION</b>			
42,43		Privatization & Globalization of Education	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO4
44		Privatization & Globalization of Education	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO4
45		Peace Education	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO4
46,47		Peace Education	LM/ICT/IM/DM	Text books, PPTs	CO4
48		<b>REEDIAL CMLASS</b>			
49,50	5	Quality Concerns in Education,concept	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO5
51,52		Quality Concerns in Education,Dimensions & indicators	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO5
53		Factors Determining Quality Education	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO5
54		Factors Determining Quality Education	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO5
55		Initiatives for Enhancing Quality Education	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO5
56		Initiatives for Enhancing Quality Education	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO5
57		<b>QUESTION ANSWER DISCUSSION</b>			
58,59		Role of School ,Teacher & Community...	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO5



60		Role of School, Teacher & Community...	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO5
61		<b>QUESTION ANSWER DISCUSSION</b>			
62	1	Diversity, Inequality and Marginalization in Society · Understanding Indian Society with reference to diversities in Language, Culture, Religion, Socio-economic class, Ethnic group	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO1
63		Understanding Indian Society with reference to diversities in Language, Culture, Religion, Socio-economic class, Ethnic group	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO1
64,65		Issues of Inequality in Society and their Socio-cultural and Educational Implications	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO1
66,67		Discrimination and marginalization as barriers for Universalization of Education	LM/ICT/IM/DM	Text books, Reference books, PPTs	CO1
68,69		Role of Education, School and Teacher in addressing issues related to diversity, inequality and marginalization	LM/ICT/IM/DM	Text books, PPTs	CO1
70		<b>REMEDIAL CLASS</b>			
71-80		<b>TEST</b>			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN-EPC-3

Session: 2022-23

Department	Teacher Education
Course Name	EPC-3 (Fine Art)
Semester	1 <sup>st</sup> Year
No of Weeks	14
No of Periods/week	2
Teacher's Name	Mr. Manoranjan Mohapatra

Total No. of periods: Theory (21) +Practical (14) +(Others 5) = 40

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	Visual art: Importance, Scope	LM	Reference books, Art tools, Art Tools	CO1, CO2
2		Characteristics of child art, folk art and fine art	DISCUSSION	Reference books, PPTs, Art Tools	CO1, CO2
3		Developing skills in visual art.		Reference books, PPTs, Tools	CO1, CO2
4	II	Survey of the natural resources in the immediate environment		Reference books, PPTs	CO1, CO2

<b>REMEDIAL CLASS</b>				
			Analysis and Synthesis	CO1, CO2
5		collection of specimens for preparation of artistic materials	Reference books, PPTs	CO1, CO2
6		preparation of report on the collected materials and their use	Discussion	CO1, CO2
7		Reproduction of child art, tribal art, handicrafts, landscape, flowers, vegetables,	Hand on practice	CO2, CO3
8	III			
9		<b>Remedial class</b>		
10		trees, birds, animals, book illustrations comprising of human figures book covers, newspapers advertisements, invitation and greeting cards	Hand on practice	CO2, CO3
11		collection of at least six of each kind and preparation of an album with proper captions.	Hand on Practice	CO2, CO3
12		Drawing of pictures of vegetables, fruits, flowers	Hand on Practice	CO2, CO3
13		Animals, birds, human figures and houses in simple form on the black board	BB Work and Hand on Practice	CO2, CO3
14	IV	Outlines of flowers, birds, animals and human figures	Reference books, PPTs, Art tools	CO3, CO4

15		Multi-coloured design with geometrical forms and floral motif suitable for textile designs,	LDM	Reference books, PPTs, Art tools	CO3, CO4
16		book cover, invitation and greeting cards	LDM	Reference books, PPTs, Art tools	CO3, CO4
17		Technique of preparing designs for line block and halftone printing	Hands on Practice	Reference books, PPTs, Art tools	CO3, CO4
18	V	Preparation of pencil and colored layouts for book cover designs	Discussion	Reference books, PPTs, Art tools	CO3, CO4
19		Invitation and greeting card design and poster designs; Practice of simple and decorative lettering suitable for block designs and signboard	Seminar	Reference books, PPTs, Art tools	CO4
20		Mounting pictures and organizing exhibitions	Hands on Practice	Art tools, PPTs	CO4
21		<b>Remedial class</b>			
30		<b>QUESTION ANSWER DISCUSSION</b>			
31,32			DM	Lab manual	
33,34			DM	Lab manual	
35,36			DM	Lab manual	
37,38			DM	Lab manual	
39			DM	Lab manual	
40		<b>TEST</b>			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	Teacher Education	
Course Name	EPC-4 (Physical Education)	
Semester	1 <sup>st</sup>	
No of Weeks	14	
No of Periods/week	2	
Teacher's Name	Mr. Banaj Sahoo	

Total No. of periods: Theory (21) +Practical (14) +(Others 5) = 40

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Understanding Physical Education	LM	Reference books, Art tools	CO1
2		Concept, need, scope of Physical Education	DISCUSSION	Reference books, PPTs	CO1
3		Organization of various Physical Education Activities	LDM	Reference books, PPTs	CO1, CO2
4		Role of Physical Education Teacher	SEMINAR	Reference books, PPTs	CO1, CO2

<b>REMEDIAL CLASS</b>					
5					
6		Preliminary idea of some common Games	LM	Reference books, PPTs	CO1, CO2
7		Objectives of Physical Education	Discussion	Reference books, PPTs	CO1, CO2
8		Preliminary idea of some common Games	LM	PPTs	CO1, CO2
9	II	Preliminary idea of some common programmes of physical education	LM	PPTs, Referencebooks	CO2, CO3
10		Recreation and work-values of play	LM	Reference books,PPTs	CO2, CO3
11		Need for recreation	SEMINAR	Reference books, PPTs	CO2, CO3
12		Different types recreational activities and their organization	LDM	Reference books, PPT	CO2, CO3
13		Provisional play and recreation in school time table	BB Work and Hand on Practice	Reference books, PPT	CO2, CO3
14		Physical education in the context of NCF 2005	SEMINAR	Reference books, PPTs	CO2, CO3
15	III	Concept, need of Yoga	LDM	Reference books, PPTs	CO4
16		Objectives of Yoga	LDM	Reference books, PPTs	CO4
17		Asthanga Yoga	LM, Hands on Practicce	Reference books, PPT	CO4

18	Benefits of Yogic practices	LDM	Reference books, PPTs	CO4
19	Different postures / asanas	LDM	Reference books, PPTs	CO4
20	Relation between Yogic practices and life goals	SEMINAR	PPTs	CO4
21	<b>Remedial class</b>			
30	<b>QUESTION ANSWER DISCUSSION</b>			
31,32		DM	Lab manual	
33,34		DM	Lab manual	
35,36		DM	Lab manual	
37,38		DM	Lab manual	
39		DM	Lab manual	
40	<b>TEST</b>			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)



SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN-CPS-2

Session-2022-23

Department	Teacher Education	
Course Name	CPS-2	
Semester	1 <sup>st</sup> Year	
No of Weeks	4	
No of Periods/week	20	
Teacher's Name	Mrs. Bidulata Sahoo	Mr. Nirmal Sethi

Total No. of periods: 45(Theory) + 27 (Lab)+8 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Assessment and Evaluation: Meaning, purpose of assessment (improving learning and teaching)	LM	Text books, Reference books, PPTs	CO1
2		purpose of evaluation (placement, diagnosis, promotion, certification, providing feedback)	LM/DISCUSSION	Text books, Reference books, PPTs	CO1
3		Interrelationship between assessment and evaluation; Classification of Assessment based on: Purpose (Placement,	LM/ICT	Text books, Reference books, PPTs	CO1

		Formative, Diagnostic, and Summative),			
4		Scope (Teacher-made, Standardized), Attributes Measured (Achievement, Attitude, Aptitude etc.), Nature of Information gathered (Qualitative, Quantitative)	LM/DEMONSTRATION	Text books, Reference books, PPTs	CO1
5		<b>REMEDIAL CLASS</b>			
6		Mode of Response (Oral, Written and Performance)	LM/ICT/DISCUSSION	Text books, Reference books, PPTs	CO1
7		Nature of Interpretation (Normreferenced and Criterion-referenced), and the Context (Internal, External).	LM/IC	Text books, Reference books, PPTs	CO1
8		Continuous and Comprehensive Assessment: Meaning, Importance and Scope	DISCUSSION, ASSIGNMENT		
9		Learning and Assessment: Assessment of Learning, Assessment for Learning, and Assessment as learning	LM/ICT	Text books, Reference books, PPTs	CO1
10		CCA vs CCE			
11	II	Meaning, Importance and Purpose; Nature - formative, continuous with learning, comprehensive (assessing all aspects of learning-cognitive, affective and psychomotor),	ICT/discussion	Text books, Reference books, PPTs	CO2
12		culturally responsive (elements from the local culture of the learners are extensively used in the assessment); relevance for CCA	LM/ICT/discussion	Text books, Reference books, PPTs	CO2

13	Wide range of formal (testing, observation schedules, video recordings etc.) and informal methods (participant observation, talking, taking notes, interviewing, engaging in activities etc.	Assignment/Seminar	Text books, Reference books, PPTs	CO2
14	use of testing (achievement tests of different forms, diagnostic tests, proficiency tests etc.) and	LM	Text books, Reference books, PPTs	CO2
15	non-testing (analysis of verbal and non-verbal activities	LM/PROJECT		CO2
16	reflective journals, projects, portfolio etc	COOPERATIVE		CO2
17	Observation, Portfolio, interview	PROJECT/ASSIGNMENT		CO2
18	Discussion about overall tools and techniques	MOCK PARLIAMENT		CO2
19	Self and Peer-assessment techniques	ICT/INSTRUCTIONAL LEARNING		CO2
20	focused group discussion, rubrics	DEMONSTRATION	Text books, Reference books, PPTs	CO2
21	Provision of feedback for students and parents- need and modes, for teachers (for timely improvement of teaching-learning process);	DEMONSTRATION	Text books, Reference books, PPTs	CO2

	Role of community in CCA	ICT/PRESENTATION	Text books, Reference books, PPTs	CO2
16				
17		<b>REMEDIAL CLASS</b>		
18	III Steps: Planning, Preparing, Trying-out and Evaluation	DEMONSTRATION/DISCUSSION	Text books, Reference books, PPTs	CO3
19	Planning the test: Development of table of specifications (blueprint)	Practical		CO3
20	Preparing the test: principles of preparing test items- objective based items- Extended and Restricted response types,	LM/ICT	Text books, Reference books, PPTs	CO3
21	Objective type items (free response type- short answer and completion; fixed response type matching, forced/alternate choice, multiple choice);	SELF LEARNING	Text books, Reference books, PPTs	CO3
22	Assembling and editing the test items	LM	Text books, Reference books, PPTs	CO3
23	Characteristics of a good test: Reliability	LM	Text books, Reference books, PPTs	CO3
24	Validity	LM		CO3
25	Usability			CO3
27	<b>QUESTION ANSWER DISCUSSION</b>			

28	IV	Current practices: Over-emphasis on Summative Assessment (Periodic and common/high-end examinations)	LM	Text books	CO4
29		competitive examination- its adverse effects on learners, education system and society	Discussion	Text books, Reference books, PPTs	CO4
30		<b>PRESENTATION BY FAST LEARNERS</b>			
31		Issues and Problems: Marking vs. Grading,	LM	Text books, Reference books, PPTs	CO4
32		objectivity vs. subjectivity, Close-ended vs. Open-ended test items	Seminar	Text books, Reference books, PPTs, articles	CO4
33		relative neglect of non-cognitive aspects	LM/ICT/IM	Text books, Reference books, PPTs, project report	CO4
34		Non-use of diverse methods and tools for assessing diverse learners	LM/RUBRICS	Text books, Reference books, PPTs, portfolio report	CO4
35		Policy perspectives: Recommendations of NPE 1986/92,	LM/ICT/OBSERVATION/portfolio	Text books, PPTs	CO4
36		<b>REMEDIAL CLASS</b>			
37		NCF – 2005	LM	Text books, Reference books, PPTs	CO4
38		RCFCE Act 2009	Self-Discovery	Text books, Reference books, PPTs	CO4

39	Non-detention policy and its implications for assessment and quality of learning	LM	Text books, Reference books, PPTs, action research report	CO4
40	Emerging practices in assessment – online assessment	LM/SELF LEARNING	Text books, Reference books, PPTs	CO4
41	Participatory Assessment	LM/ICT	Text books, Reference books, PPTs	CO4
42	<b>REMEDIAL CLASS</b>			
43	Measures of Central Tendency: Mean, Median, Mode-	LM/ICT/DISCUSSION	Text books, PPTs	CO5
44	Uses of Mean, Median and Mode and implications	ACTIVITY, PANEL DISCUSSION, Problem solving	REFERENCE BOOKS	CO5
45	Measures of Variability	LM	Text books, Reference books, PPTs	CO5
46	Range	ANALYSIS, SYNTHESIS	Text books, Reference books, PPTs	CO5
47	Average Deviation	BRAIN STORMING, LM	Text books, Reference books, PPTs	CO5
48	Quartile Deviation	LM, Problem solving	Scales of measurement, Reference books	CO5

49	Standard Deviation	LM, Problem Solving	Text books, Reference books, PPTs	CO5
50	Correlation, Its meaning and uses	Assignment/brainstorming	Text books, Reference books, PPTs	CO5
	Calculation of Correlation by Rank difference method	DEMONSTRATION, DISCOVERY, PROBLEM SOLVING	Reference Books	CO5
51	Product moment method	PEER LEARNING, PROBLEM SOLVING, DISCOVERY	Reference Books	CO5
52	Normal Probability Curve, its Characteristics	LM, Discussion	Text books, Reference books, PPTs	CO5
53	Application of NPC	Problem solving	Text books, Reference books, PPTs	CO5
54	Standard scores, Z score and T score	Problem solving	Text books, Reference books, PPTs	
55,56,57		DM	Lab manual	CO5
58,59,60		DM	Lab manual	CO5
61,62,63		DM	Lab manual	CO5

64,65,6 6			DM		Lab manual	CO5
67,68,6 9	ii		DM		Lab manual	CO5
70,71,7 2			DM		Lab manual	CO5
73,74,7 5	iii		DM		Lab manual	CO5
76,77,7 8	iv		DM		Lab manual	CO5
79		<b>REMEDIAL CLASS</b>				
80		<b>QUESTION ANSWER DISCUSSION</b>				
80		<b>TEST</b>				

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)



SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2024-25

Department	Teacher Education
Course Name	CPS 3(Pedagogy of English)
Semester	Year
No of Weeks	4
No of Periods/week	20
Teacher's Name	Mr. Nirmal Sethi

Total No. of periods: 45(Theory) + 27 (Lab)+8 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Language policy in India with reference to NPE1986	LM	Text books, Reference books, PPTs	CO1
2		Language policy in India with reference NCF – 2005	LM/DISCUSSION	Text books, Reference books, PPTs	CO1
3		Importance of English language in India in historical perspectives	LM/ICT	Text books, Reference books, PPTs	CO1
4		Place of English as a compulsory subject in school curriculum (secondary levels)	LM/DEMONSTRATION	Text books, Reference books, PPTs	CO1

<b>REMEDIAL CLASS</b>				
5				
6	Place of English as a compulsory subject in school curriculum at elementary level	LM/ICT/DISCUSSION	Text books, Reference books, PPTs	CO1
7	Objectives of learning English at elementary level	LM/IC	Text books, Reference books, PPTs	CO1
8	Objectives of learning English at secondary levels	DISCUSSION, ASSIGNMENT		
9	English language skills – their components, independence and interdependence	LM/ICT	Text books, Reference books, PPTs	CO1
10	Unit-2	<b>REMEDIAL CLASS</b>		
11	Psychology of language acquisition and language learning	ICT/discussion	Text books, Reference books, PPTs	CO2
12	Acquisition of English language: problems and issues with reference to multi-lingual context	LM/ICT/discussion	Text books, Reference books, PPTs	CO2
13	Importance of language context and input-rich classroom environment for acquisition of English language	Assignment/Seminar <b>REMEDIAL CLASS</b>	Text books, Reference books, PPTs	CO2
14	Understanding of different methods and strategies: Translation Method Direct Method, Bi-lingual Method	LM	Text books, Reference books, PPTs	CO2
15	Communicative Approach	LM/PROJRCT		CO2

16		Silent Approach, Suggestopedia	COOPERATIVE	PPTs, Textbooks	CO2
17		skill-based activity, Group Learning	PROJECT/ASSIGNMENT	Textbooks	CO2
18	III	Transaction of Prose (detailed and non-detailed)	MOCK PARLIAMENT		CO3
19		Transaction of Poetry	ICT/INSTRUCTIONAL LEARNING		CO3
20		Transaction of Grammar	DEMONSTRATION	Text books, Reference books, PPTs	CO3
21		Composition of lessons- Approaches	DEMONSTRATION	Text books, Reference books, PPTs	CO3
16		Methods and strategies of composition of lessons	ICT/PRESENTATION	Text books, Reference books, PPTs	CO3
17			<b>REMEDIAL CLASS</b>		
			<b>Question Answer Discussion</b>		
18		Preparation of unit plan	DEMONSTRATION/DISCUSSION	Text books, Reference books, PPTs	CO3
19		Preparation of lesson plan- 5E	Practical		
20		Lesson plan making in 5E method	LM/ICT	Text books, Reference books, PPTs	CO3
21		Lesson plan making in ICON method	SELF LEARNING	Text books, Reference books, PPTs	CO3

22		Strategies for enrichment of vocabulary in English: word formation skill and spelling	LM	Text books, Reference books, PPTs	CO3
23		Teaching-learning materials in English: Types and Uses	LM	Text books, Reference books, PPTs	CO3
24		Preparation of low cost no-cost teaching-learning materials in English	LM		
25			REMEDIAL CLASS		
27		<b>QUESTION ANSWER DISCUSSION</b>			
28		Assessing skills in English; framing different types of objective-based test items	LM	Text books	
29		Extended Response Type, Restrictive Response Type and Objective Type	Discussion	Text books, Reference books, PPTs	CO3
30		<b>PRESENTATION BY FAST LEARNERS</b>			
31		Portfolio assessment in English	LM	Text books, Reference books, PPTs	CO3
32		Continuous Assessment of Learners performance in English within and beyond classroom situations	Seminar	Text books, Reference books, PPTs, articles	CO3
33		Key Learning Resources in Mathematics	LM/ICT/IM	Text books, Reference books, PPTs, project report	CO3
34		Assessing progress and performances	LM/RUBRICS	Text books, Reference books, PPTs, portfolio report	CO3

35		Monitoring and giving feedback, Local and community resources	LM/ICT/OBSERVATION/portfolio	Text books, PPTs	CO3
36		<b>REMEDIAL CLASS</b>			
37		Using pair work, using group work, Using questioning	LM	Text books, Reference books, PPTs	CO3
38		Talk for learning and Involving all	Self-Discovery	Text books, Reference books, PPTs	CO3
39	IV	Characteristics of language	LM	Text books, Reference books, PPTs, action research report	CO4
40		Analysis of English language with reference to its substance, form and context	LM/SELF LEARNING	Text books, Reference books, PPTs	CO4
41		Sounds of English language: Consonants and Vowels (Pure and Diphthongs)	LM/ICT	Text books, Reference books, PPTs	CO4
42		<b>REMEDIAL CLASS</b>			
43			<b>Question Answer</b>		CO4
44		Articulation of sounds in English – appropriate use of organs of speech	ACTIVITY, PANEL DISCUSSION, Problem solving	REFERENCE BOOKS	CO4
45		Kinds of errors made by the Odia speaking learners while speaking English and their remediation	LM	PPTs, textbooks	CO4

	V	Pedagogical treatment of contents	ANALYSIS, SYNTHESIS	REFERENCE TEXTBOOKS	CO5
46					
47		Aspects of pedagogical treatment	BRAIN STORMING, LM	REFERENCE TEXTBOOKS	CO5
48		3 prose pieces and 3 poems) from the prescribed text for Classes IX and X by BSE, Odisha	LM, Demonstration	Secondary English Book	CO5
49		3 prose pieces and 3 poems) from the prescribed text for Classes IX and X by BSE, Odisha	LM, demonstration	Secondary English Book	CO5
50		3 prose pieces and 3 poems) from the prescribed text for Classes IX and X by BSE, Odisha	Assignment/brainstorming	Secondary English Book	CO5
51			<b>Remedial Class</b>		
52			<b>Question Answer Discussion</b>		CO5
53		Parts of Speech, Time and Tense	Problem solving, LM	ICTs, REFERENCE BOOKS	CO5
54		Change of Voice <ul style="list-style-type: none"> <li>• Direct and Indirect speech</li> <li>• Sentence Pattern</li> </ul>	Problem solving, LM	REFERENCE TEXTBOOKS	CO5
55,56,57	i	Lesson plan construction	DM	Lab manual	CO5
58,59,60		Blueprint construction	DM	Lab manual	CO5

61,62,6 3			DM	Lab manual	CO5
64,65,6 6			DM	Lab manual	CO5
67,68,6 9	ii	Demonstration	DM	Lab manual	CO5
70,71,7 2			DM	Lab manual	CO5
73,74,7 5	iii	Criticism lesson delivery	DM	Lab manual	CO5
76,77,7 8	iv	Blueprint construction	DM	Lab manual	CO5
79			<b>REMEDIAL CLASS</b>		
80			<b>QUESTION ANSWER DISCUSSION</b>		
80			<b>TEST</b>		

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	Teacher Education	
Course Name	CPS 3(Pedagogy of Odia)	
Semester	Year	
No of Weeks	4	
No of Periods/week	20	
Teacher's Name	Mrs. Sujata Biswal Mr. Girish Chandra Behera	

Total No. of periods: 45(Theory) + 27 (Lab)+8 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Odia as Mother Tongue in School Curriculum	LM	Text books, Reference books, PPTs	CO1, CO2
2		Importance of mother tongue in the life and education of an individual	LM/DISCUSSION	Text books, Reference books, PPTs	CO1, CO2
3		Place of Odia as mother tongue in school curriculum in Odisha	LM/ICT	Text books, Reference books, PPTs	CO1, CO2



		elementary in the context of language policy recommended by NPE 1986			
4		Place of Odia as mother tongue in school curriculum in Odisha at secondary level in the context of language policy recommended by NPE 1986	LM/DEMONSTRATION	Text books, Reference books, PPTs	CO1, CO2
5		<b>REMEDIAL CLASS</b>			
6		Objectives of teaching-learning Odia elementary level	LM/ICT/DISCUSSION	Text books, Reference books, PPTs	CO1, CO2
7		Objectives of teaching-learning Odia at secondary level	LM/ICT	Text books, Reference books, PPTs	CO1, CO2
8		Inter-dependence of language skills in Odia	DISCUSSION, ASSIGNMENT		CO1, CO2
9		Strategies for facilitating acquisition of four-fold language skills in Odia	LM/ICT	Text books, Reference books, PPTs	CO1, CO2
10		<b>Question Answer Discussion</b>			
11		Three Language Formula	ICT/discussion	Text books, Reference books, PPTs	CO1, CO2
12	II	Pedagogic Approaches to Teaching-Learning Odia	LM/ICT/discussion	Text books, Reference books, PPTs	CO3

13	Psychology of language learning and acquisition with reference to Odia as mother tongue.	LECTURE METHOD	Text books, Reference books, PPTs	CO3
14	Problems and issues related to acquisition of Odia language in multi-lingual context	LM	Text books, Reference books, PPTs	CO3
15	Problems and issues related to acquisition of Odia language in multi-lingual context(contd.)	LM/PROJRCT, COOPERATIVE	REFERENCE TEXTBOOKS	CO3
16	Traditional versus modern methods of teaching-learning Odia.	LM	TEXTBOOKS	CO3
17	Approaches and strategies to the teaching-learning of Odia Prose	PROJECT/ASSIGNMENT	SECODARY ODIA TEXTBOOK	CO3
18	Approaches and strategies to the teaching-learning of Odia Poetry	MOCK PARLIAMENT	SECONDARY ODIA BOOK	CO3
19	Approaches and strategies to the teaching-learning of Odia composition (through Rubric)	ICT/INSTRUCTIONAL LEARNING, RUBRIC	SECONDARY ODIA TEXTBOOK, GRAMMAR BOOK	CO3
20	Approaches and strategies to the teaching-learning of Odia grammar	DEMONSTRATION cum DISCUSSION	Text books, Reference books, PPTs	CO3
21	Approaches and strategies to the teaching-learning of Strategies for enrichment of Odia vocabulary (word formation and spelling)	DEMONSTRATION	Text books, Reference books, PPTs	CO3

16	Strategies for enrichment of Odia vocabulary (word formation and spelling)	ICT/PRESENTATION	Text books, Reference books, PPTs	CO3
17	<b>REMEDIAL CLASS</b>			
<b>Question Answer Discussion</b>				
18	Strategies for developing creative writing skills	DEMONSTRATION/DISCUSSION	Text books, Reference books, PPTs	CO3
19		Practical		
20	Preparation of Unit Plan	LM/ICT	Text books, Reference books, PPTs	CO4, CO5
21	Preparation of Lesson Plan	Lecture cum Discussion	Text books, Reference books, PPTs	CO4, CO5
22	Preparation of Lesson Plan	LM	Text books, Reference books, PPTs	CO4, CO5
23	Constructivist approach	LM	Text books, Reference books, PPTs	CO4, CO5
24	Learning resources and planning learning activities	LM	TEXTBOOKS, PPTs	CO4, CO5
25		REMEDIAL CLASS		
27	<b>QUESTION ANSWER DISCUSSION</b>			
28	Learning assessment in Odia: Assessing comprehension and expression skills	LM	Text books	CO4, CO5

29		preparation of objective-based and objective-type test items	Discussion	Text books, Reference books, PPTs	CO4, CO5
30		<b>PRESENTATION BY FAST LEARNERS</b>			
31		Portfolio Assessment in Odia	LM, Presentation	Text books, Reference books, PPTs	CO4, CO5
32		Comprehensive Assessment of Learning in Odia	LM, Discussion	Text books, Reference books, PPTs, articles	CO4, CO5
33		Planning remedial measures	LM/ICT/IM, Seminar	Text books, Reference books, PPTs, project report	CO4, CO5
34		Preparation of Learning Objectives	LM, Cooperative learning	Text books, Reference books, PPTs, portfolio report	CO4, CO5
35		Preparation of Lesson Plan	LM/ICT/OBSERVATION	Text books, PPTs	CO4, CO5
36		<b>REMEDIATION CLASS</b>			
37	IV	Relevance of Linguistics in Odia Language Acquisition (Introduction)	LM	Text books, Reference books, PPTs	CO6
38		Elements of Language – sound, vocabulary and structure	Discussion, Cooperative Learning	Text books, Reference books, PPTs	CO6
39		Odia Dhvani (Sound) – Types and manner of articulation	LM	Text books, Reference books, PPTs, action research report	CO6

40	Odia Vocabulary – Types (Tatsama, Tadbhava, Deshaja, Baideshika),	LM/SELF LEARNING	Text books, Reference books, PPTs	CO6
41	Word formation process and principles (use of Upasarga, Anusarga, Pratyaya, Samasa and Sandhi)	LM/ICT	Text books, Reference books, PPTs	CO6
42	<b>REMEDIAL CLASS</b>			
43		<b>Question Answer</b>		
44	Semantics (Lexical and Contextual)	ACTIVITY, PANEL DISCUSSION, Problem solving	REFERENCE BOOKS	CO6
45	Odia Syntax – Processes and Principles	LM	Text books, Reference books	CO6
46	Use of Linguistics in effective teaching-learning of Odia language	ANALYSIS, SYNTHESIS	Reference books	CO6
47	Pedagogical treatment and its different aspects	BRAIN STORMING, LM	Textbooks	CO7
48	Pedagogical treatment of Poems – Matira Manisha	LM, Problem solving	Test books	CO7
49	Pedagogical treatment of Poems- Gopa Prayana	LM, Problem Solving	Test Books	CO7
50	Pedagogical treatment of Poems- Hey mora kalama, Padma	Assignment/brainstorming	TEXT BOOK, REFERENCE BOOKS	CO7

				<b>Remedial Class</b>		
51						
52		Pedagogical treatment of Prose Pieces – Jatiya Jivana		LM, DISCUSSION	TEXTBOOKS, ICT	CO7
53		Pedagogical treatment of Prose Pieces – Prakruta Bandhu, Odia Sahitya		LM, DEMONSTRATION	Reference books	CO7
54		Grammar – Karaka, Bibhakti, Samasa		DISCUSSION	TEXTBOOKS	CO7
55,56,57		Preparation of lesson plan		DM	Lab manual	
58,59,60		Blueprint construction		DM	Lab manual	
61,62,63		Demonstration	i	DM	Lab manual	
64,65,66				DM	Lab manual	
67,68,69		Preparation of lesson plan		DM	Lab manual	
70,71,72			ii	DM	Lab manual	
73,74,75		Blueprint construction	iii	DM	Lab manual	
76,77,78		Criticism lesson delivery	iv	DM	Lab manual	

79		<b>REMEDIAL CLASS</b>
80		<b>QUESTION ANSWER DISCUSSION</b>
80		<b>TEST</b>

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	
Course Name	CPS-3
Semester	
No of Weeks	
No of Periods/week	20
Teacher's Name	Ms. Pranati Priyadarshini

Total No. of periods: 41 (Theory) + 27 (Lab)+12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1.	I	Nature of Physical science	LM	Text books, Reference books, PPTs	CO1
2.		Scope of Science	LM/DISCUSSION	Text books, Reference books, PPTs	CO1
3.		Importance of physical science	LM/ICT/INDUCTION	Text books, Reference books, PPTs	CO1
4.		Objectives of teaching science	LM/DEMONSTRATIO N	Text books, Reference books, PPTs	CO1
5.	<b>REMEDIAL CLASS</b>				



6.	Importance of science at secondary level,	LM/ICT/DISCUSSION	Text books, Reference books, PPTs	CO1
7.	Rational, objectives of teaching science	LM/ICT/PANEL DISCUSSION	Text books, Reference books, PPTs	CO1
8.	principles, designs and materials in science	DISCUSSION, ASSIGNMENT		
9.	recent curricular reforms at the National and State levels (NCF 2005).	LM/ICT/PROJECT	Text books, Reference books, PPTs	CO1
10.	<b>DOUBT CLEARING CLASS</b>			
11.	Learning by Discovery	ICT/DISCOVERY METHOD	Text books, Reference books, PPTs	CO2
12.	experimentation	LM/ICT/DEDUCTIVE	Text books, Reference books, PPTs	CO2
13.	Problem Solving	PROBLEM SOLVING METHOD	Text books, Reference books, PPTs	CO2
14.	Demonstration	ICT/PROJECT	Text books, Reference books, PPTs	CO2
15.	Project method	LM/PROJECT		CO2
16.	Self learning strategies	DISCOVERY, COOPERATIVE		CO2

17.		peer learning strategies	PROJECT/ASSIGNMENT/ROLE PLAY		CO2
18.		Collaborative strategies	MOCK PARLIAMENT		CO2
19.		5E Models	DEMONSTRATION	Text books, Reference books, PPTs	CO2
20.		ICON Model	DEMONSTRATION	Text books, Reference books, PPTs	CO2
21.		Application of 5E and ICON models	ICT/PRESENTATION	Text books, Reference books, PPTs	CO2
22.		<b>REMEDIAL CLASS</b>			
23.					
24.	III	Preparation of unit Plans	DEMONSTRATION/DISCUSSION	Text books, Reference books, PPTs	CO3, CO4
25.		Preparation of Lesson Plans			CO3, CO4
26.		Traditional approaches	LM/ICT	Text books, Reference books, PPTs	CO3, CO4
27.		Activity and Constructivist Approaches	SELF LEARNING	Text books, Reference books, PPTs	CO 3, CO4
28.		learningActivities in science	INDUCTIVE/DEDUCTIVE	Text books, Reference books, PPTs	CO3, CO4
29.		science laboratory activities,	ROLE PLAY, INDUCTIVE	Text books, Reference books, PPTs	CO3, CO4

30.	Field trip, science club, exhibitions	DISCOVERY,PROJECT		CO3, CO4
31.	Seminar			CO3, CO4
32.	<b>QUESTION ANSWER DISCUSSION</b>			
33.	Teaching Learning Materials in science: preparation, collection, procurement, use	LM/ICT/ASSIGNMENT	Text books, Reference books, PPTs	CO3, CO4
34.	Charts, graphs, bulletin boards, model	LM/ICT/DISCUSSION/exhibition	Text books, Reference books, PPTs	CO3, CO4
35.	Filmstrips, slides, a-v, computer, internet	DISCUSSION	IMAGES AND VIDEOS OF FILM STRIPS, SLIDES	CO3, CO4
36.	Key Learning Resources in science	LM/ICT/PEER TEACHING	Text books, Reference books, PPTs	CO3, CO4
37.	preparation and utilization of learning materials	LM/ICT/COLLABORATIVE LEARNING	Text books, PPTs	CO3, CO4
38.	<b>REEDIAL CMLASS</b>			
39.	Assessing progress and performances	LM/RUBRICS/PORTFOLIO	Text books, Reference books, PPTs, SCALES OF MEASUREMENTS	CO3, CO4
40.	Monitoring and giving feedback	LM/PEER LEARNING	Text books, Reference books, PPTs	CO3, CO4
41.	Local and community resources	LM/ICT/GROUP DISCUSSION/field trips	Text books, References	CO3, CO4

42.	Using pair work, Using group work	COLLABORATION/ COOPERATION	Text books, Reference books, PPTs	CO3, CO4
43.	Using questioning (both by teacher and learners) to promote thinking	LM/ICT/DISCUSSION	Text books, Reference books, PPTs	CO3, CO4
44.	<b>QUESTION ANSWER DISCUSSION</b>			
45.	Talk for learning and Involving all	LM/COOPERATIVE LEARNING	Text books, Reference books, PPTs	CO3, CO4
46.	IV Construction of class room test and unit test	demonstration	Text books	CO5
47.	Designing blue print	DEMONSTRATION	Text books, Reference books, PPTs	CO5
48.	<b>PRESENTATION BY FAST LEARNERS</b>			
49.	item construction, marking schemes	DEMONSTRATION	Text books, Reference books, PPTs	CO5
50.	Assignments	LM/ICT/PROBLEM SOLVING	Text books, Reference books, PPTs, articles	CO5
51.	Projects	LM/ICT/IM	Text books, Reference books, PPTs, project report	CO5
52.	portfolios	LM/RUBRICS	Text books, Reference books, PPTs, portfolio report	CO5

53.	group and collaborative assessment	LM/ICT/OBSERVATION/p ortfolio	Text books, PPTs	CO5
54.	<b>REMEDIAL CLASS</b>			
55.	Observation of learners	LM/ICT/OBSERVATION	Text books, Reference books, PPTs	CO5
56.		LM/RUBRICS/PORTFOLIO	Text books, Reference books, PPTs	CO5
57.	Diagnosis of difficulties in learning	LM/ACTION RESEARCH	Text books, Reference books, PPTs,action research report	CO5
58.	Remediation of the difficulties	LM/SELF LEARNING/COOPERATIVE	Text books, Reference books, PPTs	CO5
59.		LM/ICT/IM	Text books, Reference books, PPTs	CO5
60.	<b>REMEDIAL CLASS</b>			
61.	enrichment programmes	COLLABORATIVE,COOPER ATIVE approach	Text books, PPTs	CO5
62.		LM/ICT/DISCUSSION	Text books, PPTs	CO5
63.	Planning for continuous assessment of classroom learning	ACTIVITY ,PANEL DISCUSSION, PROJECT/PORTFOLIO	REFERENCE BOOKS	CO5
64.	V Atomic Structure: Atoms and Molecules,	Demonstration cum discussion, project	MODEL OF atomic structures of C, H, CH3	CO6

	Classification of elements	ANALYSIS, SYNTHESIS	PERIODIC TABLE, TEXT BOOK	CO6
65.				
66.	Motion, Laws of Motion	DISCOVERY/DISCUSSION/ BRAIN STORMING	TEXT BOOK, IMAGES OF FOOTBALL MATCH, VIDEO OF CAR RACE	CO6
67.	Concepts of Work, Energy, Pressure and their measurement	Demonstration, experime ntation	REFERENCE BOOKS, image of manometer	CO6
68.	Energy: Sources and forms of Energy	PROJECT/PORTFOLIO/disc ussion	Images of sun, tide, coal	CO6
69.	Renewable and non-renewable Energy	Assignment/brainstormin g	REFERENCE BOOKS, images of windmill, coal engine	CO6
70.	Electricity and Magnetism	DEMONSTRATION, DISCOVERY, PROBLEM SOLVING	Textbook, bar magnet	CO6
71.	Electric Circuit, Potential Difference, Magnetic Field	PEER LEARNING, PROBLEM SOLVING, DISCOVERY	MODEL of electric circuit, bulb	CO6
72.	Lines of Force, Electromagnetic induction.	DEDUCTIVE, PROBLEM SOLVING, PROJECT	Text book , reference books	CO6
73.	Chemical Reactions and Equation	Problem solving, collaborative	Text books, reference books,	CO6

	Heat, Light and Sound	Experimentation, demonstration/a-v aids	Iron bell, thermometer, ice, water, musical instrument	CO6
74.				
75.		DM	Lab manual	
76.	i	DM	Lab manual	
77.		DM	Lab manual	
78.		DM	Lab manual	
79.	ii	DM	Lab manual	
80.		DM	Lab manual	
81.	iii	DM	Lab manual	
82.	iv	DM	Lab manual	
83.	<b>REMEDIAL CLASS</b>			
84.	<b>QUESTION ANSWER DISCUSSION</b>			
85.	<b>TEST</b>			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	CC – I, C Programming	CC– I, C Programming
Semester	I	I
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Ms. Monalisa Swain	Ms. Monalisa Swain Smt. Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	History of programming language	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Introduction of programming language, keyword	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Identifier, Constant,	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Variables, Input and Output Operation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Compilation and pre-processing	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Different types of data types	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Data type qualifier, modifier	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Memory representations and range	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Operators	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Operator Types	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Expression and order of expression	LM/ICT/IM	Text books, Reference books, PPTs	CO1



12		Decisions making and branching	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Selection control structure	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		<b>REMEDIAL CLASS</b>			
15		<b>QUESTION ANSWER DISCUSSION</b>			
16	II	Looping	LM/ICT/IM	Text books, Reference books, PPTs	CO2
17		Looping	LM/ICT/IM	Text books, Reference books, PPTs	CO2
18		Jumps in Loop	LM/ICT/IM	Text books, Reference books, PPTs	CO2
19		<b>DOUBT CLEARING CLASS</b>			
20		Concept of Array, Array declaration, types of Array	LM/ICT/IM	Text books, Reference books, PPTs	CO2
21		Character array and string, subscript and pointer representation of Array,	LM/ICT/IM	Text books, Reference books, PPTs	CO2
22		Array of Pointer, Limitation of array	LM/ICT/IM	Text books, Reference books, PPTs	CO2
23		<b>REMEDIAL CLASS</b>			
24		Concept of pointer	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Pointer expression, Declaring pointer variable	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		accessing the address of a variable	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Initializations of Pointer Variable, Accessing a Variable through its Pointer	LM/ICT/IM	Text books, PPTs	CO2
28		<b>PRESENTATION BY FAST LEARNERS</b>			
29		Pointer arithmetic	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		<b>PRESENTATION BY FAST LEARNERS</b>			
31	III	Types of Storage Class	LM/ICT/IM	Text books, Reference books, PPTs	CO3
32		Declaration and definition of Storage class	LM/ICT/IM	Text books, Reference books, PPTs	CO3

33	Function and types of function	LM/ICT/IM	Text books, Reference books, PPTs	CO3
34	Function Definition and Declaration	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	Function Calls, Header file and library	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	Function Arguments, string handling function	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	Function recursion, Functions Returning Pointers	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	Pointers to Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	Command line arguments	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Application of pointer	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41	<b>REMEDIAL CLASS</b>			
42	<b>QUESTION ANSWER DISCUSSION</b>			
43	Defining, Declaring, Accessing of Structure, Initialization Structure	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44	Nested structure, self-referential structure, Arrays of Structures	LM/ICT/IM	Text books, PPTs	CO4
45	Structures and Functions, Unions, difference between structure and union	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	Structure within union, Self-referential Structure	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47	File Management in C, Defining and Opening and Closing a File	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48	File operations	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49	File and stream	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50	Error Handling During I/O Operations	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	Sequential and random-access file	LM/ICT/IM	Text books, PPTs	CO4
52	Low level and high-level file.	LM/ICT/IM	Text books, PPTs	CO4
53	<b>REMEDIAL CLASS</b>			

QUESTION ANSWER DISCUSSION			
54			
55,56,57	I	Greatest among three numbers	DM
58,59,60		Test all arithmetic operations using Switch Case	DM
61,62,63		Print the SUM and PRODUCT of digits of an Integer, reverse a Number	DM
64,65,66		Sum of Series $1 + 1/2 + 1/3 + 1/4 + \dots + 1/N$ , checking palindrome, prime numbers less than 100	DM
67,68,69	II	Even-values elements of the array, sum and average of the elements of the array	DM
70,71,72		Maximum and minimum elements of Array, array in reverse order, Remove the duplicate from array	DM
73,74,75	III	Pointer arithmetic program. Swap two numbers using pointers	DM
76,77,78	IV	UDF program and inbuilt function use. File read and write operations	DM
79	<b>REMEDIAL CLASS</b>		
80	<b>TEST</b>		

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	CC – I, Digital Logic	CC – I, Digital Logic Lab
Semester	I	I
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Ms. Puspanjali Mallick	Ms. Puspanjali Mallick Smt. Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Character Codes, Decimal System	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Binary System	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Decimal to Binary Conversion	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Hexadecimal Notation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Boolean Algebra	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Basic Logic Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Electronic Logic Gates	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Synthesis of Logic Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Synthesis with NAND and NOR Gates	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		K Map using Tabular Method	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		K Map method using five variables, Tri-State Buffers	LM/ICT/IM	Text books, Reference books, PPTs	CO1

12		Minimization of Logic Expressions	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Minimization using Karnaugh Maps	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		<b>REMEDIAL CLASS</b>			
15		<b>QUESTION ANSWER DISCUSSION</b>			
16	II	Arithmetic: Addition and Subtraction of Signed Numbers	LM/ICT/IM	Text books, Reference books, PPTs	CO2
17		Addition/ Subtraction Logic Unit	LM/ICT/IM	Text books, Reference books, PPTs	CO2
18		Design of Fast Adders: Carry-Look ahead Addition	LM/ICT/IM	Text books, Reference books, PPTs	CO2
19		<b>DOUBT CLEARING CLASS</b>			
20		Multiplication of Positive Numbers, Signed-Operand Multiplication: Booth Algorithm	LM/ICT/IM	Text books, Reference books, PPTs	CO2
21		Fast Multiplication: Bit-Pair Recoding Multipliers	LM/ICT/IM	Text books, Reference books, PPTs	CO2
22		Integer Division, Floating-Point Numbers and Operations	LM/ICT/IM	Text books, Reference books, PPTs	CO2
23		<b>REMEDIAL CLASS</b>			
24		IEEE Standard for Floating-Point Numbers	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Arithmetic Operations on Floating-Point Numbers	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Implementing Floating-Point Operations	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Booth Algorithm	LM/ICT/IM	Text books, PPTs	CO2
28		<b>PRESENTATION BY FAST LEARNERS</b>			
29		Guard Bits and Truncation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		<b>PRESENTATION BY FAST LEARNERS</b>			
31	III	Flip-Flops, Gated Latches	LM/ICT/IM	Text books, Reference books, PPTs	CO3
32		Master-Slave Flip-Flops, Edge-Triggering	LM/ICT/IM	Text books, Reference books, PPTs	CO3
33		T Flip-Flops, JK Flip-Flops.	LM/ICT/IM	Text books, Reference books, PPTs	CO3

34	Registers and Shift Registers	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	Counters, Decoders, Multiplexers	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	Programmable Logic Devices (PLDs)	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	Programmable Array Logic (PAL)	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	Complex Programmable Logic Devices (CPLDs)	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	Field-Programmable Gate Array (FPGA), Sequential Circuits, UP/DOWN Counters	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Timing Diagrams, The Finite State Machine Model, Synthesis of Finite State Machines	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41	<b>REMEDIAL CLASS</b>			
42	<b>QUESTION ANSWER DISCUSSION</b>			
43	Memory System: Semiconductor RAM Memories	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44	Reactions of monocarboxylic acids	LM/ICT/IM	Text books, PPTs	CO4
45	International Organizations of Memory Chips	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	Static Memories, Asynchronous DRAMS, Synchronous DRAMS	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47	Structure of Large Memories	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48	Cost of Memory	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49	Memory System Considerations, RAMBUS Memory	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50	Read-Only Memories: ROM, PROM, EPROM, EEPROM, Flash Memory, Speed, Size	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	Secondary Storage: Magnetic Hard Disks, Optical Disks, Magnetic Tape Systems.	LM/ICT/IM	Text books, PPTs	CO4
52	Introduction to Xilinx software (VHDL)	LM/ICT/IM	Text books, PPTs	CO4

REMEDIAL CLASS			
QUESTION ANSWER DISCUSSION			
53			
54			
55,56,57		Write the VHDL code for Combinational Circuit.	DM Lab manual
58,59,60		Write the VHDL code for ADDER, SUBTRACTOR	DM Lab manual
61,62,63	I	Write the VHDL code for MUX, DE-MUX, Encoder, Decoder	DM Lab manual
64,65,66		Write the VHDL code for PAL, PLA	DM Lab manual
67,68,69	II	Write the VHDL code for Flip Flops	DM Lab manual
70,71,72		Write the VHDL code for Shift Registers	DM Lab manual
73,74,75	III	Write the VHDL code for Counters	DM Lab manual
76,77,78	IV	Write the VHDL code for Memory Elements	DM Lab manual
79			
80			
<b>REMEDIAL CLASS</b>			
<b>TEST</b>			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	CC – III, C++	CC –III, C++ Lab
Semester	II	II
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Ms. Monalisa Swain	Ms. Monalisa Swain Smt. Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	History & Evolution of C++	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Basic Concepts of Object Oriented Programming	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Advantages of using Object- Oriented Programming	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Characteristics of OOPS & Key Concepts	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		OOPs Language and Applications, C++ Introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Difference Between C & C++	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Tokens, Datatypes & Operators	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Structure of a basic C++ Program	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		C++ Statements & Expressions	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Control Structures	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Functions in C++, Inline Function	LM/ICT/IM	Text books, Reference books, PPTs	CO1



12		Passing Arguments (Parameter Passing)	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Friend Function	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		<b>REMEDIAL CLASS</b>			
15		<b>QUESTION ANSWER DISCUSSION</b>			
16	II	Defining Classes & Objects	LM/ICT/IM	Text books, Reference books, PPTs	CO2
17		Member Functions & its Implementations	LM/ICT/IM	Text books, Reference books, PPTs	CO2
18		Making an outside function inline	LM/ICT/IM	Text books, Reference books, PPTs	CO2
19		<b>DOUBT CLEARING CLASS</b>			
20		Nested Member Functions, Private Member functions	LM/ICT/IM	Text books, Reference books, PPTs	CO2
21		Memory Allocation of Objects	LM/ICT/IM	Text books, Reference books, PPTs	CO2
22		Static data functions and static member functions	LM/ICT/IM	Text books, Reference books, PPTs	CO2
23		<b>REMEDIAL CLASS</b>			
24		Objects as function arguments	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Constructors and Destructors	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Constructors- Parameterized, Default	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Copy Constructor, Dynamic Initialization of objects	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		<b>PRESENTATION BY FAST LEARNERS</b>			
29		Destructors With examples	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		<b>PRESENTATION BY FAST LEARNERS</b>			
31	III	Basics of Inheritance	LM/ICT/IM	Text books, Reference books, PPTs	CO3
32		Types of Inheritance	LM/ICT/IM	Text books, Reference books, PPTs	CO3

33	Abstract Classes, Virtual Base Class	LM/ICT/IM	Text books, Reference books, PPTs	CO3
34	Member Classes, Nesting of Classes	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	Polymorphism concept and examples	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	Pointers, Pointers to objects	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	This pointer, pointer to derived class	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	Virtual functions, Pure virtual functions	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	Function Overloading concept with programs	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Operator Overloading concept with programs	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41	<b>REMEDIAL CLASS</b>			
42	<b>QUESTION ANSWER DISCUSSION</b>			
43	Consoling I/O operations	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44	C++ Stream & Stream Classes		Text books, PPTs	CO4
45	Formatted I/O operations	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	Unformatted I/O operations	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47	Managing Output With Manipulators	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48	Files- Stream Operations, Managing Files	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49	Managing file Opening & Closing, Detection of end-of-file	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50	Different Types of Modes of Files, File Pointers and their Manipulation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	Exception Handling Mechanism, Types of Errors	LM/ICT/IM	Text books, PPTs	CO4
52	Try, Throw, Catch block, Command line Arguments	LM/ICT/IM	Text books, PPTs	CO4
53	<b>REMEDIAL CLASS</b>			

QUESTION ANSWER DISCUSSION				
54				
55,56,57		Checking Prime, find GCD and LCM of two numbers, Multiplication table from 1 to 10, Swapping two numbers using pass by value, pass by address and pass by reference	DM	Lab manual CO5
58,59,60	I	Use of default argument passing, Square and cube of given number using inline function, Sum of four numbers using default argument passing in member function, Calculating area of circle, triangle and rectangle using function overloading	DM	Lab manual CO5
61,62,63		Properties of static and non-static data member, Method of accessing static private member function, Way of calling constructors and destructors	DM	Lab manual CO5
64,65,66		To perform ++ operator overloading using member function To perform + operator overloading for string concatenation.	DM	Lab manual CO5
67,68,69	II	To perform single inheritance To perform multiple inheritance	DM	Lab manual CO5
70,71,72		Copy the contents of one file to other	DM	Lab manual CO5
73,74,75	III	Use of friend function (friend with two classes, friend with 3 classes)	DM	Lab manual CO5
76,77,78	IV	Create an integer array using new operator and find the sum and average of array elements	DM	Lab manual CO5
79			<b>REMEDIAL CLASS</b>	
80			<b>TEST</b>	

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	CC – IV, Data Structure	CC – IV, Data Structure
Semester	II	II
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Ms. Puspanjali Mallick	Ms. Puspanjali Mallick Smt. Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Introduction of Data Structure	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Time and space complexity	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Review of Array	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Review of Structures	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Review of pointer	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Dynamic memory allocation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Dynamic memory representation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Linked list insertion	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Linked list deletion	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Linked list Searching	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Traversing in a list	LM/ICT/IM	Text books, Reference books, PPTs	CO1

12		Doubly linked list		LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Parse matrices		LM/ICT/IM	Text books, Reference books, PPTs	CO1
14				<b>REMEDIAL CLASS</b>		
15				<b>QUESTION ANSWER DISCUSSION</b>		
16	II	Stack Definition		LM/ICT/IM	Text books, Reference books, PPTs	CO2
17		Stack Representation		LM/ICT/IM	Text books, Reference books, PPTs	CO2
18		Stack operations		LM/ICT/IM	Text books, Reference books, PPTs	CO2
19				<b>DOUBT CLEARING CLASS</b>		
20		Infix Conversion & Evaluation		LM/ICT/IM	Text books, Reference books, PPTs	CO2
21		Prefix Conversion & Evaluation		LM/ICT/IM	Text books, Reference books, PPTs	CO2
22		Postfix Conversion & Evaluation		LM/ICT/IM	Text books, Reference books, PPTs	CO2
23				<b>REMEDIAL CLASS</b>		
24		Recursion		LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Definition of Queue		LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Queue Representation		LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Types of Queues		LM/ICT/IM	Text books, PPTs	CO2
28				<b>PRESENTATION BY FAST LEARNERS</b>		
29		Queue operations, Applications		LM/ICT/IM	Text books, Reference books, PPTs	CO2
30				<b>PRESENTATION BY FAST LEARNERS</b>		
31	III	Tree Terminologies		LM/ICT/IM	Text books, Reference books, PPTs	CO3
32		General Tree		LM/ICT/IM	Text books, Reference books, PPTs	CO3
33		Binary Tree		LM/ICT/IM	Text books, Reference books, PPTs	CO3

34		Binary Tree Representations	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35		Binary Tree Traversing	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36		BST	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37		Operations on BST	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38		Heap tree	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39		AVL Search Trees	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40		M-way search tree and Applications of all trees	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41		<b>REMEDIAL CLASS</b>			
42		<b>QUESTION ANSWER DISCUSSION</b>			
43	IV	Exchange sorts	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44		Selection Sort	LM/ICT/IM	Text books, PPTs	CO4
45		Bubble sort	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46		Insertion Sorts	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47		Merge Sort	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48		Quick Sort	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49		Radix Sort	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50		Heap sort	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51		Linear search	LM/ICT/IM	Text books, PPTs	CO4
52		Binary search	LM/ICT/IM	Text books, PPTs	CO4
53		<b>REMEDIAL CLASS</b>			
54		<b>QUESTION ANSWER DISCUSSION</b>			

55,56,57	I	To insert and delete elements from appropriate position in an array	DM	Lab manual	CO5
58,59,60		To delete all occurrence of an element in an array			
61,62,63		Array implementation of Stack			
64,65,66		Array implementation of Linear Queue			
67,68,69	II	Different operation such as node insert and delete, search of an item, reverse the list on linear linked list	DM	Lab manual	CO5
70,71,72		Different operation such as node insert and delete on circular linked list			
73,74,75	III	To perform Bubble sort	DM	Lab manual	CO5
76,77,78	IV	To perform Merge sort	DM	Lab manual	CO5
79	<b>REMEDIAL CLASS</b>				
80	<b>TEST</b>				

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**  
**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	Core-5, Java Programming	Core-5, Java Programming Lab
Semester	IV	IV
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Ms. Puspanjali Mallick	Ms. Puspanjali Mallick Smt. Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Introduction to Java: Java History, Architecture and Features, Understanding the semantic and syntax differences between C++ and Java	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Compiling and Executing a Java Program, Variables, Constants, Keywords	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Data Types, Wrapper class, Operators (Arithmetic, Logical and Bitwise) and Expressions, Comments	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Doing Basic Program Output, Decision Making Constructs (conditional statements and loops) and Nesting	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Wrapper class, Programs illustrating wrapper class	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Built-in Java Class Methods). Input through keyboard using Command line Argument, the Scanner class, Buffered Reader class.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Scanner class, Buffered Reader class. Programming illustration.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Keywords of java: super, this, final, abstract, static, extends, implements, interface.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		abstract, static, extends, implements, interface	LM/ICT/IM	Text books, Reference books, PPTs	CO1



10	Architecture and Features of Java language	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11	JVM architecture, java default packages	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12	Data Types in Java, Control Structure basic Programs	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13	Command line arguments, programs on taking command line arguments	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14	<b>REMEDIAL CLASS</b>			
15	<b>QUESTION ANSWER DISCUSSION</b>			
16	Object-Oriented Programming Overview: Principles of Object-Oriented Programming, Defining & Using Classes	LM/ICT/IM	Text books, Reference books, PPTs	CO2
17	Class Variables & Methods, Objects, Object reference, Objects as parameters, final classes, Garbage Collection.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
18	Constructor- types of constructors, this keyword, super keyword. Method overloading and Constructor overloading.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
19	<b>DOUBT CLEARING CLASS</b>			
20	Aggregation vs Inheritance programs	LM/ICT/IM	Text books, Reference books, PPTs	CO2
21	Inheritance: extends vs implements, types of Inheritance	LM/ICT/IM	Text books, Reference books, PPTs	CO2
22	Interface in java importance, concept example	LM/ICT/IM	Text books, Reference books, PPTs	CO2
23	<b>REMEDIAL CLASS</b>			
24	Up-Casting, Down-Casting in java concept examples	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25	Auto-Boxing, Enumerations, Polymorphism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26	Method Overriding and restrictions	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27	Package: Pre-defined packages and Custom packages	LM/ICT/IM	Text books, PPTs	CO2
28	<b>PRESENTATION BY FAST LEARNERS</b>			

29	Method overloading and Constructor overloading, Polymorphism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30	<b>PRESENTATION BY FAST LEARNERS</b>			
31	Arrays: Creating & Using Arrays (1D, 2D, 3D and Jagged Array)	LM/ICT/IM	Text books, Reference books, PPTs	CO3
32	Array of Object, Referencing Arrays Dynamically	LM/ICT/IM	Text books, Reference books, PPTs	CO3
33	Strings and I/O: Java Strings: The Java String class, Creating & Using String Objects	LM/ICT/IM	Text books, Reference books, PPTs	CO3
34	Manipulating Strings, String Immutability & Equality, Passing Strings To & From Methods	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	String Buffer Classes and StringBuilder Classes	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	IO package: Understanding Streams File class and its methods, Creating, Reading, Writing using classes	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	Byte and Character streams, FileOutputStream, FileInputStream	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	File Writer, FileReader, InputStreamReader, Print Stream, Print Writer. Compressing and Uncompressing File	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	Manipulating Strings, String Immutability & Equality, Passing Strings To & From Methods	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Array of Object, Referencing Arrays Dynamically	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41	<b>REMEDIATION CLASS</b>			
42	<b>QUESTION ANSWER DISCUSSION</b>			
43	Exception Handling, Threading, Networking and Database Connectivity	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44	Exception types, uncaught exceptions, throw, built-in exceptions	LM/ICT/IM	Text books, PPTs	CO4
45	Creating your own exceptions; Multi-threading: The Thread class and Runnable interface	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	creating single and multiple threads, Thread prioritization, synchronization and communication	LM/ICT/IM	Text books, Reference books, PPTs	CO4

47	suspending/resuming threads. Using java.net package	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48	Overview of TCP/IP and Datagram programming	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49	Accessing and manipulating databases using JDBC	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50	Networking and Database Connectivity	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	TCP/IP and Datagram programming	LM/ICT/IM	Text books, PPTs	CO4
52	manipulating databases using JDBC	LM/ICT/IM	Text books, PPTs	CO4
53		<b>REMEDIAL CLASS</b>		
54		<b>QUESTION ANSWER DISCUSSION</b>		
55,56,57	Use of command line arguments. Program for factorial of a number, converting decimal to binary number.	DM	Lab manual	CO5
58,59,60	Check prime number i.e., inputted from the keyboard	DM	Lab manual	CO5
61,62,63	Sum of integers where every number is a keyboard input	DM	Lab manual	CO5
64,65,66	Working with different String functions and StringBuffer class : setCharAt(), setLength(), append(), insert(), concat() and equals().	DM	Lab manual	CO5
67,68,69	Use of Inheritance	DM	Lab manual	CO5
70,71,72	Create a multi-file program where in one file a string message is taken as input from the user and the function to display the message on the screen is given in another file	DM	Lab manual	CO5
73,74,75	Use of multilevel package	DM	Lab manual	CO5
76,77,78	Use of Exception Handling eg. – “DivideByZero” To create own exception types to handle situation specific to your application	DM	Lab manual	CO5
79		<b>REMEDIAL CLASS</b>		
80		<b>TEST</b>		

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	CC – VI, Database Systems	CC – VI, Database Systems Lab
Semester	II	II
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Ms. Monalisa Swain	Ms. Monalisa Swain Smt. Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Introduction to Database and DB Users	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Database System Concepts & Architecture	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		3- Tier Architecture	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Schema & Instances	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Data Models and types introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Database design	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Entity- Relationship Model- Types	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Entity Sets, Attributes, keys	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Relationship & its Types	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Entity Integrity Constraints	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		ER Naming Conventions	LM/ICT/IM	Text books, Reference books, PPTs	CO1

12	Enhanced – Entity relationship models introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13	Specialization, Aggregation, Generalization	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		<b>REMEDIAL CLASS</b>		
15		<b>QUESTION ANSWER DISCUSSION</b>		
16	II Theory of Database Design	LM/ICT/IM	Text books, Reference books, PPTs	CO2
17	Introduction to Normalization	LM/ICT/IM	Text books, Reference books, PPTs	CO2
18	Dependencies and its types	LM/ICT/IM	Text books, Reference books, PPTs	CO2
19		<b>DOUBT CLEARING CLASS</b>		
20	Key Constraints	LM/ICT/IM	Text books, Reference books, PPTs	CO2
21	Functional Dependencies	LM/ICT/IM	Text books, Reference books, PPTs	CO2
22	Fully functional dependency, Partial dependency, Transitive dependency	LM/ICT/IM	Text books, Reference books, PPTs	CO2
23		<b>REMEDIAL CLASS</b>		
24	Closure Properties	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25	First Normal form, Second Normal form	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26	Third Normal Form, BCNF	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27	Fourth Normal form, Fifth Normal Form	LM/ICT/IM	Text books, PPTs	CO2
28		<b>PRESENTATION BY FAST LEARNERS</b>		
29	Join Dependencies	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		<b>PRESENTATION BY FAST LEARNERS</b>		
31	III Relational Data Model & SQL introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO3
32	Basic SQL Commands & Types of SQL commands	LM/ICT/IM	Text books, Reference books, PPTs	CO3
33	Data Query Language & Data Definition Language	LM/ICT/IM	Text books, Reference books, PPTs	CO3

34	Data Manipulation Language, Transaction Control Language	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	Data Control Language	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	Relational Algebra & Its Operations	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	Selection, Projection, Rename, Assignment operations	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	Union, intersection, Cartesian product, set difference	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	Join Operations, Division operation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Types of Join Operations	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41		<b>REMEDIAL CLASS</b>		
42		<b>QUESTION ANSWER DISCUSSION</b>		
43	IV Introduction to Transaction Processing System Concepts & Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44	Transaction Processing introduction		Text books, PPTs	CO4
45	Properties of Transactions	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	Transaction Operations	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47	Schedules & Conflicts	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48	Deadlock Handling	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49	Concurrency Control Techniques	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50	Locking Techniques	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	Types of Locking	LM/ICT/IM	Text books, PPTs	CO4
52	Time – Stamp ordering	LM/ICT/IM	Text books, PPTs	CO4
53		<b>REMEDIAL CLASS</b>		
54		<b>QUESTION ANSWER DISCUSSION</b>		
55,56,57	I Creating Table, Inserting data into tables	DM	Lab manual	CO5
58,59,60	Altering tables	DM	Lab manual	CO5

61,62,63		Updating Tables, Deleting Tables	DM	Lab manual	CO5
64,65,66		Creating table with constraints	DM	Lab manual	CO5
67,68,69		Retrieving data from table	DM	Lab manual	CO5
70,71,72	II	Use of functions (Date functions, String functions etc.)	DM	Lab manual	CO5
73,74,75	III	Different operations like Union, Intersection etc.	DM	Lab manual	CO5
76,77,78	IV	Working with multiple tables	DM	Lab manual	CO5
79			<b>REMEDIAL CLASS</b>		
80			<b>TEST</b>		

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

<b>Department</b>	COMPUTER SCIENCE	COMPUTER SCIENCE
<b>Course Name</b>	CC – VII, Discrete Mathematical Structure	CC – VII, Discrete Mathematical Structure
<b>Semester</b>	III	III
<b>No of Weeks</b>	11	09
<b>No of Periods/week</b>	5	3
<b>Teacher's Name</b>	Smt. Swagatika Mohapatra	Smt. Swagatika Mohapatra Smt. Pusanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

<b>Period</b>	<b>Unit</b>	<b>Topics</b>	<b>Method of Teaching (LM/ICT/IM/DM)</b>	<b>Source of Teaching Materials</b>	<b>Corresponding COs</b>
1	I	Propositional Logic	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Propositional Equivalences	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Predicates and Quantifiers	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Nested Quantifiers	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Rules inference	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Mathematical Induction	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Sets	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Relations	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Closures of Equivalence Relations	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Partial ordering well ordering	LM/ICT/IM	Text books, Reference books, PPTs	CO1



12		Lattice		LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Sum of products and product of sums principle of Inclusions and Exclusions		LM/ICT/IM	Text books, Reference books, PPTs	CO1
14			<b>REMEDIAL CLASS</b>			
15			<b>QUESTION ANSWER DISCUSSION</b>			
16	II	Permutations		LM/ICT/IM	Text books, Reference books, PPTs	CO2
17		Permutations		LM/ICT/IM	Text books, Reference books, PPTs	CO2
18		Combinations		LM/ICT/IM	Text books, Reference books, PPTs	CO2
19			<b>DOUBT CLEARING CLASS</b>			
20		Combinations		LM/ICT/IM	Text books, Reference books, PPTs	CO2
21		Pigeonhole principle		LM/ICT/IM	Text books, Reference books, PPTs	CO2
22		Linear Recurrence Relations		LM/ICT/IM	Text books, Reference books, PPTs	CO2
23			<b>REMEDIAL CLASS</b>			
24		Linear Recurrence Relations		LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Non-linear Recurrence Relations		LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Non-linear Recurrence Relations		LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Solving Recurrence Relation using Generating Functions		LM/ICT/IM	Text books, PPTs	CO2
28			<b>PRESENTATION BY FAST LEARNERS</b>			
29		Solving Recurrence Relation using Generating Functions		LM/ICT/IM	Text books, Reference books, PPTs	CO2
30			<b>PRESENTATION BY FAST LEARNERS</b>			
31	III	Introduction to graphs and Graphs terminologies		LM/ICT/IM	Text books, Reference books, PPTs	CO3
32		Representation of graphs		LM/ICT/IM	Text books, Reference books, PPTs	CO3

33	Isomorphism	LM/ICT/IM	Text books, Reference books, PPTs	CO3
34	Connectivity	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	Euler and Hamiltonian Paths	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	Introduction to tree and tree traversals	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	Spanning tree and tree search	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	Breadth first search	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	Depth first search	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Cut-set and cut-vertex	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41	<b>REMEDIAL CLASS</b>			
42	<b>QUESTION ANSWER DISCUSSION</b>			
43	IV Introduction to automata and Finite State Machine	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44	Deterministic Finite Automata	LM/ICT/IM	Text books, PPTs	CO4
45	Deterministic Finite Automata	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	Non-Deterministic Finite Automata	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47	Non-Deterministic Finite Automata	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48	Conversion of NFA to DFA	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49	Grammars and Language	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50	Grammars and Language	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	Application of Pumping Lemma for Regular Language	LM/ICT/IM	Text books, PPTs	CO4

52	Application of Pumping Lemma for Regular Language	LM/ICT/IM	Text books, PPTs	CO4
53		<b>REMEDIAL CLASS</b>		
54		<b>QUESTION ANSWER DISCUSSION</b>		
55,56,57	Graph representation using Adjacency Matrix	DM	Lab manual	CO5
58,59,60	Graph representation using Adjacency List	DM	Lab manual	CO5
61,62,63	Power Set, union, Intersection	DM	Lab manual	CO5
64,65,66	To find Permutation and Combination result for a given pair of values n and r	DM	Lab manual	CO5
67,68,69	To find GCD of two numbers using recursion	DM	Lab manual	CO5
70,71,72	To find Binomial coefficients	DM	Lab manual	CO5
73,74,75	To find the Roots of polynomials	DM	Lab manual	CO5
76,77,78	Find the shortest path pair in a plane, TOH	DM	Lab manual	CO5
79		<b>REMEDIAL CLASS</b>		
80		<b>TEST</b>		

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	CC – VIII, Operating Systems	CC – VIII, Operating Systems Lab
Semester	IV	IV
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Ms. Monalisa Swain	Ms. Monalisa Swain Smt. Pusanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Introduction to Operating System	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Types Of OS	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Functions of OS	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		System Structures	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Types of System Structures	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Operating System Services	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		System calls	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Types of System Calls	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		System programs	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Operating system design and implementation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Operating system structure	LM/ICT/IM	Text books, Reference books, PPTs	CO1

12		Types Of OS Structure		LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Kernel OS, Monolithic OS		LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		<b>REMEDIAL CLASS</b>				
15		<b>QUESTION ANSWER DISCUSSION</b>				
16	II	Process Management		LM/ICT/IM	Text books, Reference books, PPTs	CO2
17		Process & Threads		LM/ICT/IM	Text books, Reference books, PPTs	CO2
18		Process Concept, Operations on processes		LM/ICT/IM	Text books, Reference books, PPTs	CO2
19		<b>DOUBT CLEARING CLASS</b>				
20		Process Control Block		LM/ICT/IM	Text books, Reference books, PPTs	CO2
21		Process scheduling and algorithms		LM/ICT/IM	Text books, Reference books, PPTs	CO2
22		Process State Diagram		LM/ICT/IM	Text books, Reference books, PPTs	CO2
23		<b>REMEDIAL CLASS</b>				
24		Inter-process Communication		LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Concept of Deadlocks		LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Necessary Conditions for Deadlock		LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Deadlock detection, Deadlock Prevention		LM/ICT/IM	Text books, PPTs	CO2
28		<b>PRESENTATION BY FAST LEARNERS</b>				
29		Deadlock avoidance, Bankers Algorithm		LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		<b>PRESENTATION BY FAST LEARNERS</b>				
31	III	Memory Management Strategy		LM/ICT/IM	Text books, Reference books, PPTs	CO3
32		Swapping		LM/ICT/IM	Text books, Reference books, PPTs	CO3

33	Memory Allocation Techniques	LM/ICT/IM	Text books, Reference books, PPTs	CO3
34	Contiguous Memory Allocation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	Non- Contiguous Memory Allocation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	Paging	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	Demand Paging	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	Segmentation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	Virtual Memory, Overlays	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Compaction	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41	<b>REMEDIAL CLASS</b>			
42	<b>QUESTION ANSWER DISCUSSION</b>			
43	Storage Management	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44	Overview of Files	LM/ICT/IM	Text books, PPTs	CO4
45	File System concept	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	File Access Methods	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47	File System Mounting	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48	Types of Mounting	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49	File Sharing	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50	Implementing File Systems	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	File Protection	LM/ICT/IM	Text books, PPTs	CO4
52	Kernel I/O Systems	LM/ICT/IM	Text books, PPTs	CO4
53	<b>REMEDIAL CLASS</b>			

QUESTION ANSWER DISCUSSION					
54					
55,56,57	I	Creating Parent and Child Process, test how Parent and child run differently, test how parent waits for child process	DM	Lab manual	CO5
58,59,60		Write a program to report behaviour of Linux kernel including kernel version, CPU type and model	DM	Lab manual	CO5
61,62,63	I	Write a program to report behaviour of Linux kernel including information on configured memory, amount of free and used memory	DM	Lab manual	CO5
64,65,66		Write a program to print file details including owner access permissions, file access time, where file name is given as argument	DM	Lab manual	CO5
67,68,69		Write a program to copy files using system calls	DM	Lab manual	CO5
70,71,72	II	Implementation of FCFS scheduling algorithm, SRTF scheduling algorithm	DM	Lab manual	CO5
73,74,75	III	Implement pre-emptive priority-based scheduling algorithm, SJF scheduling algorithm	DM	Lab manual	CO5
76,77,78	IV	Implement Priority Scheduling Algorithm Non-Pre-emptive Priority Scheduling Algorithm	DM	Lab manual	CO5
79		Implementation of different memory management technique: First-fit, Best-fit, Worst-fit	DM	Lab manual	CO5
80			<b>REMEDIAL CLASS</b>		
			<b>TEST</b>		

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	CC-9, Computer Networks	CC-9, Computer Networks Lab
Semester	IV	IV
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Smt. Swagatika Mohapatra	Smt. Swagatika Mohapatra Smt. Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Introduction to Data Communications and Network Models: Protocols and Standards.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Layers in OSI Models: Application, Presentation, Session, Transport layer functionalities	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Layers in OSI Models: Session, Transport, Network layer functionalities.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Layers in OSI Models: Datalink, Physical layer functionalities.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Analog and Digital Signals	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Transmission Impairment, Data Rate Limits, Performance.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Digital Transmission, Network Devices & Drivers: Hub, Switch, Bridge	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Digital Transmission, Network Devices & Drivers: Hub, Switch, Bridge	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Network Topology and its types: Router, Modem, Repeater.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		TCP/IP network model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		TCP/IP Model and OSI model a comparative study	LM/ICT/IM	Text books, Reference books, PPTs	CO1



12		Connection oriented vs Connection less services	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Internet Technology, forum, standards	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		<b>REMEDIAL CLASS</b>			
15		<b>QUESTION ANSWER DISCUSSION</b>			
16	II	Signal Conversion: Digital-to-Digital Conversion	LM/ICT/IM	Text books, Reference books, PPTs	CO2
17		Analog-to-Digital Conversion	LM/ICT/IM	Text books, Reference books, PPTs	CO2
18		Digital-to analog Conversion	LM/ICT/IM	Text books, Reference books, PPTs	CO2
19		<b>DOUBT CLEARING CLASS</b>			
20		Analog-to-analog Conversion.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
21		Transmission Media: Guided Media	LM/ICT/IM	Text books, Reference books, PPTs	CO2
22		Transmission Media: Unguided Media	LM/ICT/IM	Text books, Reference books, PPTs	CO2
23		<b>REMEDIAL CLASS</b>			
24		Switching Techniques: Packet Switching	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Switching Techniques: Circuit Switching, Datagram Networks	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Switching Techniques: Virtual-Circuit Networks	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Structure of a Switch	LM/ICT/IM	Text books, PPTs	CO2
28		<b>PRESENTATION BY FAST LEARNERS</b>			
29		Comparison: Circuit switching packet switching and Message Switching	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		<b>PRESENTATION BY FAST LEARNERS</b>			
31	III	Introduction to Error Detection and Correction Methods bit error burst error	LM/ICT/IM	Text books, Reference books, PPTs	CO3
32		Error Detection and correction methods Checksum, CRC	LM/ICT/IM	Text books, Reference books, PPTs	CO3
33		Data Link Control: Framing techniques	LM/ICT/IM	Text books, Reference books, PPTs	CO3

34	Flow and Error Control mechanism	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	Flow and Error Control mechanism for Noiseless Channels	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	Flow and Error Control mechanism for Noisy channels	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	Stop and Wait ARQ, Slidding Window Protocol,	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	Go Back N, Selective Repeat ARQ	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	HDLC frame format. Point-to-Point Protocol	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Access Control: TDM, CSMA/CD and Channelization (FDMA, TDMA, and CDMA).	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41	<b>REMEDIAL CLASS</b>			
42	<b>QUESTION ANSWER DISCUSSION</b>			
43	Network Layer: functionality, Logical Addressing	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44	IPv4 Addresses, IPv6 Addresses	LM/ICT/IM	Text books, PPTs	CO4
45	Virtual-Circuit Networks: Frame Relay and ATM	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	Transport Layer: Process-Process Delivery: UDP, TCP.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47	Application layers: DNS, SMTP	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48	Application layers: POP, FTP, HTTP	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49	Basics of WIFI	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50	Network Security: Authentication, Basics of Public Key and Private Key	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	Digital Signatures and Certificates	LM/ICT/IM	Text books, PPTs	CO4
52	Network Security: Authentication, Authorization	LM/ICT/IM	Text books, PPTs	CO4
53	<b>REMEDIAL CLASS</b>			
54	<b>QUESTION ANSWER DISCUSSION</b>			
55,56,57	I	DM	Lab manual	CO5

58,59,60	Simulate two-dimensional Parity generator and checker.	DM	Lab manual	CO5
61,62,63	Simulate checksum generator and checker.	DM	Lab manual	CO5
64,65,66	Simulate Hamming code method.	DM	Lab manual	CO5
67,68,69	Simulate Cyclic Redundancy Check (CRC) error detection algorithm for noisy channel.	DM	Lab manual	CO5
70,71,72	Simulate and implement stop and wait protocol for noisy channel	DM	Lab manual	CO5
73,74,75	Simulate and implement go back n sliding window protocol.	DM	Lab manual	CO5
76,77,78	Simulate and implement selective repeat sliding window protocol Simulate and implement distance vector routing algorithm.	DM	Lab manual	CO5
79	<b>REMEDIAL CLASS</b>			
80	<b>TEST</b>			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	CC – X, Computer Graphics	CC - X, Computer Graphics Lab
Semester	V	II
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Ms. Monalisa Swain	Ms. Monalisa Swain Smt. Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Basics overview of Computer Graphics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Computer Graphics Applications	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Cathode Ray Tube	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Types of Deflection	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Working & Construction of CRT	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Direct View Short Tube	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Random Scan	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Raster Scan	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Color CRT Monitor	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Beam- Penetration Method	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Shadow Masking Method	LM/ICT/IM	Text books, Reference books, PPTs	CO1

12		Graphics Software		LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Input/ Output Devices		LM/ICT/IM	Text books, Reference books, PPTs	CO1
14				<b>REMEDIAL CLASS</b>		
15				<b>QUESTION ANSWER DISCUSSION</b>		
16	II	Graphics Output Primitives		LM/ICT/IM	Text books, Reference books, PPTs	CO2
17		Point and Lines		LM/ICT/IM	Text books, Reference books, PPTs	CO2
18		Algorithms for line(DDA Algorithm)		LM/ICT/IM	Text books, Reference books, PPTs	CO2
19				<b>DOUBT CLEARING CLASS</b>		
20		Bresenham's Line Drawing Algorithm		LM/ICT/IM	Text books, Reference books, PPTs	CO2
21		Circle Drawing Algorithms		LM/ICT/IM	Text books, Reference books, PPTs	CO2
22		Mid-Point Circle Drawing Algorithm		LM/ICT/IM	Text books, Reference books, PPTs	CO2
23				<b>REMEDIAL CLASS</b>		
24		Fix Area Primitives		LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Seed fill Algorithm		LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Flood fill, Boundary fill algorithm		LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Scan-Filled Algorithms		LM/ICT/IM	Text books, PPTs	CO2
28				<b>PRESENTATION BY FAST LEARNERS</b>		
29				LM/ICT/IM	Text books, Reference books, PPTs	CO2
30				<b>PRESENTATION BY FAST LEARNERS</b>		
31	III	Transformations		LM/ICT/IM	Text books, Reference books, PPTs	CO3
32		2- Dimensional Geometric Transformations		LM/ICT/IM	Text books, Reference books, PPTs	CO3

33		2-DRotation, 2-DReflection	LM/ICT/IM	Text books, Reference books, PPTs	CO3
34		2-D Scaling	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35		2-D Shearing, 2-D Translation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36		3-D Modelling Transformation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37		3-D Rotation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38		3-D Reflection	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39		3-D Scaling	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40		3-D Translation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41		<b>REMEDIAL CLASS</b>			
42		<b>QUESTION ANSWER DISCUSSION</b>			
43	IV	Two-Dimensional Viewing	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44		Introduction to viewing and clipping	LM/ICT/IM	Text books, PPTs	CO4
45		Viewing transformation in 2- D	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46		Viewing pipeline	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47		Clipping Window	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48		Clipping Algorithms	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49		Point clipping	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50		Line clipping	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51		Cohen-Sutherland Algorithm	LM/ICT/IM	Text books, PPTs	CO4
52		Polygon clipping (Sutherland Hodgeman)	LM/ICT/IM	Text books, PPTs	CO4

		<b>REMEDIAL CLASS</b>		
		<b>QUESTION ANSWER DISCUSSION</b>		
53				
54				
55,56,57	I	Basic drawing like – line, rectangle, circle Making screen saver, moving car	DM	Lab manual CO5
58,59,60		Implementing Bresenham’s line drawing algorithm	DM	Lab manual CO5
61,62,63		implementing mid-point circle drawing algorithm	DM	Lab manual CO5
64,65,66		Line Clipping using Cohen and Sutherland line clipping algorithm	DM	Lab manual CO5
67,68,69	II	Polygon clipping using Sutherland Hodgeman algorithm	DM	Lab manual CO5
70,71,72	III	Filling a polygon using Scan line fill algorithm	DM	Lab manual CO5
73,74,75		2D transformations on a 2D object	DM	Lab manual CO5
76,77,78	IV	3D transformations on a 3D object and then apply parallel and perspective projection on it.	DM	Lab manual CO5
79				
80				
		<b>REMEDIAL CLASS</b>		
		<b>TEST</b>		

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	CC – XI, Web Technologies	CC - XI, Web Technologies Lab
Semester	VI	VI
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Ms. Puspanjali Mallick	Ms.Puspanjali Mallick Smt.Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding Cos
1	I	Web Essentials: Clients, Servers and Communication	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		The Internet – Basic Internet protocols – The WWW, HTTP request message – response message	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Web clients web servers – case study	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Introduction to HTML: HTML, HTML domains	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Basic structure of an HTML document	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Creating an HTML document, mark up tags	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Heading, paragraphs, line breaks, HTML tags	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Elements of HTML	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Working with text, lists	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Working with tables	LM/ICT/IM	Text books, Reference books, PPTs	CO1



11	Working with frames	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12	Working with hyperlink, images	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13	Working with multimedia, forms and controls	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14	<b>REMEDIAL CLASS</b>			
15	<b>QUESTION ANSWER DISCUSSION</b>			
16	Introduction to cascading style sheets: Concepts of CSS	LM/ICT/IM	Text books, Reference books, PPTs	CO2
17	Creating style sheet, CSS properties	LM/ICT/IM	Text books, Reference books, PPTs	CO2
18	CSS styling (background, text format, controlling fonts)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
19	<b>DOUBT CLEARING CLASS</b>			
20	CSS styling (background, text format, controlling fonts)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
21	Working with the block elements	LM/ICT/IM	Text books, Reference books, PPTs	CO2
22	Working with lists	LM/ICT/IM	Text books, Reference books, PPTs	CO2
23	<b>REMEDIAL CLASS</b>			
24	Working with tables	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25	Box model (introduction, border properties, padding properties, margin properties),	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26	Box model (introduction, border properties, padding properties, margin properties),	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27	CSS colour, grouping, Dimensions, display positioning, floating, align	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28	<b>PRESENTATION BY FAST LEARNERS</b>			
29	Pseudo class, Navigation bar, image sprites	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30	<b>PRESENTATION BY FAST LEARNERS</b>			

31	III	Java scripts: Client-side scripting	LM/ICT/IM	Text books, Reference books, PPTs	CO3
32		What is java script, simple java script	LM/ICT/IM	Text books, Reference books, PPTs	CO3
33		Variables, functions	LM/ICT/IM	Text books, Reference books, PPTs	CO3
34		Conditions, loops and repetitions	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35		Java scripts and objects	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36		The DOM and web browser environment	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37		Forms and validations.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38		DHTML: Combining HTML, CSS,	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39		Java scripts, events and buttons	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40		Controlling your browser.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41		<b>REMEDIAL CLASS</b>			
42		<b>QUESTION ANSWER DISCUSSION</b>			
43	IV	PHP: Starting to script on server side, PHP basics	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44		Variables, data types, Operators	LM/ICT/IM	Text books, PPTs	CO4
45		Expressions, constants	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46		Decisions and loop making decisions	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47		Strings – creating, accessing strings	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48		Searching, replacing and formatting strings.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49		Arrays: Creation, accessing array	LM/ICT/IM	Text books, Reference books, PPTs	CO4

50	Multidimensional arrays	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	Introduction to Xilinx software (VHDL)	LM/ICT/IM	Text books, PPTs	CO4
52	Write the VHDL code for realizing all logic gates	LM/ICT/IM	Text books, PPTs	CO4
53		<b>REMEDIAL CLASS</b>		
54		<b>QUESTION ANSWER DISCUSSION</b>		
55,56,57	Developing an HTML page, test all the HTML headings HTML code to design your personal biodata, create an unordered list	DM	Lab manual	CO5
58,59,60	Ordered list in HTML and a table upload image, video and audio Creating & Working frames.	DM	Lab manual	CO5
61,62,63	Creating form in HTML	DM	Lab manual	CO5
64,65,66	Upload different items like list box, audio, video and also display an ordered and unordered list	DM	Lab manual	CO5
67,68,69	Writing code using JavaScript Input using prompt in JavaScript.	DM	Lab manual	CO5
70,71,72	JavaScript code to test a number is even or odd	DM	Lab manual	CO5
73,74,75	calculator for addition, subtraction, and multiplication and division operation using JavaScript	DM	Lab manual	CO5
76,77,78	Creating 'Style Sheet' using CSS working with HTML Element box properties in CSS	DM	Lab manual	CO5
79		<b>REMEDIAL CLASS</b>		
80		<b>TEST</b>		

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	CC – XII, Software Engineering	CC - XII, Software Engineering Lab
Semester	V	II
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Ms. Monalisa Swain	Ms. Monalisa Swain Smt. Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Software Engineering Introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Software Development Projects	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Exploratory Style of Software Development	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Software Engineering Emergence	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Computer Systems Engineering	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Software Development Life Cycle Models	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Waterfall Model & its Extensions	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Build & Fix/ Generate the Test Model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Evolutionary Models- Prototyping, Spiral	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Verification & Verification Model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Rapid Application Development Model	LM/ICT/IM	Text books, Reference books, PPTs	CO1

12	Agile Model		LM/ICT/IM	Text books, Reference books, PPTs	CO1
13			LM/ICT/IM	Text books, Reference books, PPTs	CO1
14	<b>REMEDIAL CLASS</b>				
15	<b>QUESTION ANSWER DISCUSSION</b>				
16	Software Project Management		LM/ICT/IM	Text books, Reference books, PPTs	CO2
17	Software Project Management Complexities		LM/ICT/IM	Text books, Reference books, PPTs	CO2
18	Responsibilities of a Software Project Manager		LM/ICT/IM	Text books, Reference books, PPTs	CO2
19	<b>DOUBT CLEARING CLASS</b>				
20	Project Planning, Metrics for Project Size Estimation		LM/ICT/IM	Text books, Reference books, PPTs	CO2
21	Project Estimation Techniques		LM/ICT/IM	Text books, Reference books, PPTs	CO2
22	Empirical Estimation Techniques		LM/ICT/IM	Text books, Reference books, PPTs	CO2
23	<b>REMEDIAL CLASS</b>				
24	Constructive Cost Model(COCOMO)		LM/ICT/IM	Text books, Reference books, PPTs	CO2
25	Halstead's Software Science		LM/ICT/IM	Text books, Reference books, PPTs	CO2
26	Staffing Level Estimation, Scheduling		LM/ICT/IM	Text books, Reference books, PPTs	CO2
27	Organization and Team Structures, Staffing		LM/ICT/IM	Text books, PPTs	CO2
28	<b>PRESENTATION BY FAST LEARNERS</b>				
29	Risk Management, Software Configuration Management.		LM/ICT/IM	Text books, Reference books, PPTs	CO2
30	<b>PRESENTATION BY FAST LEARNERS</b>				
31	Requirement Analysis and Specification		LM/ICT/IM	Text books, Reference books, PPTs	CO3
32	Requirements Gathering and Analysis		LM/ICT/IM	Text books, Reference books, PPTs	CO3
33	Software Requirement Specifications		LM/ICT/IM	Text books, Reference books, PPTs	CO3

34	Formal System Specification Axiomatic Specification	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	Algebraic Specification, Executable Specification and 4GL	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	Software Design & its Design Process	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	Characterize a Good Software Design	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	Cohesion and Coupling	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	Layered Arrangements of Modules	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Approaches to Software Design (Function Oriented & Object-Oriented)	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41	<b>REMEDIAL CLASS</b>			
42	<b>QUESTION ANSWER DISCUSSION</b>			
43	Coding and Testing	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44	Code Review	LM/ICT/IM	Text books, PPTs	CO4
45	Software Documentation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	Testing, Unit Testing	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47	Black Box and White Box Testing	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48	Debugging, Program Analysis Tools	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49	Integration Testing	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50	System Testing	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	Software Maintenance	LM/ICT/IM	Text books, PPTs	CO4
52	Types of Software Maintenance	LM/ICT/IM	Text books, PPTs	CO4
53	<b>REMEDIAL CLASS</b>			

QUESTION ANSWER DISCUSSION			
54			
55,56,57		Implement a criminal record management system for jailers, police officers and CBI officers	DM Lab manual CO5
58,59,60	I	Online information about the bus routes and their frequency and fares	DM Lab manual CO5
61,62,63		Parking Allocation System	DM Lab manual CO5
64,65,66		Patient Appointment and Prescription Management System	DM Lab manual CO5
67,68,69	II	Organized Retail Shopping Management Software	DM Lab manual CO5
70,71,72		Online Hotel Reservation Service System	DM Lab manual CO5
73,74,75	III	Examination and Result computation system	DM Lab manual CO5
76,77,78	IV	Automatic Internal Assessment System	DM Lab manual CO5
79			
80			
<b>REMEDIAL CLASS</b>			
<b>TEST</b>			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	DSE-I Numerical Techniques	DSE-I, Numerical Techniques Lab
Semester	V	V
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Smt. Swagatika Mohapatra	Smt. Swagatika Mohapatra Smt. Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Introduction to Numerical Techniques, Need of Numerical Techniques in the field of Computer Science, Applications	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Floating point representation and computer arithmetic.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Significant digits. Approximation Techniques	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Scientific Notation in significant figures.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Errors: Round-off error, Local truncation error, Global truncation error	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Error in approximation Relative error, Percentage error. Absolute error calculation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Order of a method, Convergence and terminal conditions	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		General formula for error propagation.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Rate of convergence, Efficient computations	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Methods with quadratic order of convergence	LM/ICT/IM	Text books, Reference books, PPTs	CO1



11	Methods with cubic order of convergence	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12	Numerical solution of non-linear equations	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13	Number system: Decimal Binary, Octal, Hexadecimal, Conversion of one number system to another number system	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14	<b>REMEDIAL CLASS</b>			
15	<b>QUESTION ANSWER DISCUSSION</b>			
16	Algebraic and Transcendental Equations Examples.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
17	Numerical Methods for solving Algebraic and Transcendental Equations	LM/ICT/IM	Text books, Reference books, PPTs	CO2
18	Bisection Method Examples	LM/ICT/IM	Text books, Reference books, PPTs	CO2
19	<b>DOUBT CLEARING CLASS</b>			
20	Secant method, Problems	LM/ICT/IM	Text books, Reference books, PPTs	CO2
21	Regula-Falsi method, Problems	LM/ICT/IM	Text books, Reference books, PPTs	CO2
22	Newton-Raphson method	LM/ICT/IM	Text books, Reference books, PPTs	CO2
23	<b>REMEDIAL CLASS</b>			
24	Newton's method for solving nonlinear systems	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25	Rate of convergence of Newton Raphson method	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26	Iteration Method Problem solving	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27	Numerical Methods Problems linear non-linear equations.	LM/ICT/IM	Text books, PPTs	CO2
28	<b>PRESENTATION BY FAST LEARNERS</b>			
29	Problem solving	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30	<b>PRESENTATION BY FAST LEARNERS</b>			
31	Introduction to interpolation, Significance of interpolation and extrapolation.	LM/ICT/IM	Text books, Reference books, PPTs	CO3

32	Basic operators for interpolation operation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
33	Interpolation numerical methods for equal and unequal intervals	LM/ICT/IM	Text books, Reference books, PPTs	CO3
34	Lagrange's form and Newton's form Finite difference operators	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	Gregory Newton forward differences Interpolation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	Newton backward differences Interpolation.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	Piecewise polynomial interpolation: Linear interpolation.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	Piecewise polynomial interpolation: Quadratic interpolation.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	Piecewise polynomial interpolation: Cubic interpolation.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Interpolation problems on piecewise linear, Quadratic and Cubic interpolation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41				
42				
<b>REMEDIAL CLASS</b>				
<b>QUESTION ANSWER DISCUSSION</b>				
43	IV Introduction to numerical integration: Numerical integration: Trapezoid rule Simpson's rule	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44	Numerical integration: Simpson's rule		Text books, PPTs	CO4
45	Newton-Cotes formulas for numerical integration	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	Gaussian quadrature	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47	Introduction to ODE, Methods for solving ODE	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48	Ordinary differential equation: Euler's method Modified Euler's methods	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49	Runge-Kutta first order methods for solving initial value problem of differential equations	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50	Runge-Kutta second order methods for solving initial value problem of differential equations	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	Problem on numerical integration on Simpson Rule	LM/ICT/IM	Text books, PPTs	CO4

	Problem on numerical integration on Trapezoidal Rule	LM/ICT/IM	Text books, PPTs	CO4
52				
53				
54				
<b>REMEDIAL CLASS</b>				
<b>QUESTION ANSWER DISCUSSION</b>				
55,56,57	Find the roots of the equation using bisection method.	DM	Lab manual	CO5
58,59,60	Find the roots of the equation using secant/Regula-Falsi method.	DM	Lab manual	CO5
61,62,63	Find the roots of the equation using Newton 's method.	DM	Lab manual	CO5
64,65,66	Find the solution of a system of nonlinear equation using Newton's method.	DM	Lab manual	CO5
67,68,69	Find the solution of tri-diagonal system using Gauss Thomas method.	DM	Lab manual	CO5
70,71,72	Find the solution of system of equations using Jacobi/Gauss-Seidel method.	DM	Lab manual	CO5
73,74,75	Find the cubic spline interpolating function.	DM	Lab manual	CO5
76,77,78	Evaluate the approximate value of finite integrals using Gaussian/Romberg integration.	DM	Lab manual	CO5
79				
80				
<b>REMEDIAL CLASS</b>				
<b>TEST</b>				

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	DSE-II, Unix Shell Programming	DSE-II, Unix Shell Programming Lab
Semester	V	V
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Smt. Swagatika Mohapatra	Smt. Swagatika Mohapatra Smt. Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Unix Operating systems, Difference between Unix and other operating systems,	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Unix Operating systems: Features and Architecture	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Installation of Unix OS	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Booting and shutdown process	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		An Overview of system process. State Translon of Process.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Locating commands, External and internal commands, Command Structure	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		General Purpose Utility Commands	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Creation of partitions in OS	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Flexibility of command usage	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Processes and its creation phases – Fork, Exec, wait, exit	LM/ICT/IM	Text books, Reference books, PPTs	CO1

11	Man Browsing the manual page		LM/ICT/IM	Text books, Reference books, PPTs	CO1
12	Understanding the man documentation for further help.		LM/ICT/IM	Text books, Reference books, PPTs	CO1
13	Comparative structure of internal and external commands.		LM/ICT/IM	Text books, Reference books, PPTs	CO1
14	<b>REMEDIAL CLASS</b>				
15	<b>QUESTION ANSWER DISCUSSION</b>				
16	User Management and the File System: The File System.	II	LM/ICT/IM	Text books, Reference books, PPTs	CO2
17	Handling Ordinary files, Basic file Attributes		LM/ICT/IM	Text books, Reference books, PPTs	CO2
18	Types of Users, Creating users in Unix Environment		LM/ICT/IM	Text books, Reference books, PPTs	CO2
19	<b>DOUBT CLEARING CLASS</b>				
20	Granting rights, User management commands		LM/ICT/IM	Text books, Reference books, PPTs	CO2
21	File quota and various file systems available		LM/ICT/IM	Text books, Reference books, PPTs	CO2
22	File System Management and Layout		LM/ICT/IM	Text books, Reference books, PPTs	CO2
23	<b>REMEDIAL CLASS</b>				
24	File permissions, Login process		LM/ICT/IM	Text books, Reference books, PPTs	CO2
25	Managing Disk Quotas		LM/ICT/IM	Text books, Reference books, PPTs	CO2
26	Links (hard links, symbolic links		LM/ICT/IM	Text books, Reference books, PPTs	CO2
27	Commands for handling file systems		LM/ICT/IM	Text books, PPTs	CO2
28	<b>PRESENTATION BY FAST LEARNERS</b>				
29	The VI editor basics and its utilities		LM/ICT/IM	Text books, Reference books, PPTs	CO2
30	<b>PRESENTATION BY FAST LEARNERS</b>				
31	Shell introduction and Shell Scripting: Shell and various type of shell	III	LM/ICT/IM	Text books, Reference books, PPTs	CO3
32	Various editors present in Unix		LM/ICT/IM	Text books, Reference books, PPTs	CO3

33	Different modes of operation in vi editor	LM/ICT/IM	Text books, Reference books, PPTs	CO3
34	Shell script, Writing and executing the shell script,	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	Shell variable (user defined and system variables)	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	System calls, Using system calls	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	Pipes and Filters in Unix	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	The Shell's Interpretive Cycle	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	Shell Offering Escaping and Quoting	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Pattern Matching the Wild-cards	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41	<b>REMEDIAL CLASS</b>			
42	<b>QUESTION ANSWER DISCUSSION</b>			
43	IV Unix Control Structures and Utilities: Decision making in Shell Scripts (If else, switch)	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44	Loops in Shell Scripting The while loop the for loop		Text books, PPTs	CO4
45	The until loop, the select loop	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	The infinite loop, the break statement, the continue statement	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47	Shell Functions Creating Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48	Passing Parameters to a function, Returning Values from functions	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49	Nested Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50	Utility programs (cut, paste, join, tr, uniq utilities)	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	Pattern matching utility (grep).	LM/ICT/IM	Text books, PPTs	CO4
52	Essential Shell Programming.	LM/ICT/IM	Text books, PPTs	CO4
53	<b>REMEDIAL CLASS</b>			

QUESTION ANSWER DISCUSSION				
54				
55,56,57		Write a shell script to check if the number entered at the command line is prime or not. Write a shell script to modify "cal" command to display calendars of the specified months.	DM	Lab manual CO5
58,59,60	I	Write a shell script to modify "cal" command to display calendars of the specified range of months. Write a shell script to accept a login name. If not a valid login name display message "Entered login name is invalid".	DM	Lab manual CO5
61,62,63		Write a shell script to display date in the mm/dd/yy format. Write a shell script to display on the screen sorted output of "who" command along with the total number of users.	DM	Lab manual CO5
64,65,66		Write a shell script to display the multiplication table of any number	DM	Lab manual CO5
67,68,69		Write a shell script to compare two files and if found equal asks the user to delete the duplicate file.	DM	Lab manual CO5
70,71,72	II	Write a shell script to find the sum of digits of a given number.	DM	Lab manual CO5
73,74,75	III	Write a shell script to merge the contents of three files, sort the contents and then display them page by page.	DM	Lab manual CO5
76,77,78	IV	Write a shell script to find the LCD (least common divisor) of two numbers.	DM	Lab manual CO5
79				
80				
<b>REMEDIAL CLASS</b>				
<b>TEST</b>				

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	CC – XIII, Artificial Intelligence	CC –XIII, Artificial Intelligence
Semester	VI	VI
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Ms. Monalisa Swain	Ms. Monalisa Swain Smt. Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Introduction to Artificial Intelligence	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Foundation of Artificial Intelligence	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		History of Artificial Intelligence	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Background and Applications	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Turing Test	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Rational Agent approaches to AI	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Introduction to Intelligent Agents	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Agents and environment	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Intelligent Agents structure	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Intelligent Agents structure	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Intelligent Agents structure	LM/ICT/IM	Text books, Reference books, PPTs	CO1



12		Nature of Environment	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Structure of agent	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		<b>REMEDIAL CLASS</b>			
15		<b>QUESTION ANSWER DISCUSSION</b>			
16	II	Problem solving agent and example of problems	LM/ICT/IM	Text books, Reference books, PPTs	CO2
17		Production Systems	LM/ICT/IM	Text books, Reference books, PPTs	CO2
18		Control Strategies	LM/ICT/IM	Text books, Reference books, PPTs	CO2
19		<b>DOUBT CLEARING CLASS</b>			
20		Breadth First Search and Depth First Search	LM/ICT/IM	Text books, Reference books, PPTs	CO2
21		Hill climbing and its Variations	LM/ICT/IM	Text books, Reference books, PPTs	CO2
22		Heuristics Search Techniques	LM/ICT/IM	Text books, Reference books, PPTs	CO2
23		<b>REMEDIAL CLASS</b>			
24		Best First Search	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		A* algorithm	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Constraint Satisfaction Problem	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Introduction to Game Playing	LM/ICT/IM	Text books, PPTs	CO2
28		<b>PRESENTATION BY FAST LEARNERS</b>			
29		Min-Max and Alpha-Beta pruning algorithms	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		<b>PRESENTATION BY FAST LEARNERS</b>			
31	III	Introduction to First Order Predicate Logic	LM/ICT/IM	Text books, Reference books, PPTs	CO3
32		Syntax and semantics of First Order Logic	LM/ICT/IM	Text books, Reference books, PPTs	CO3
33		Resolution Principle	LM/ICT/IM	Text books, Reference books, PPTs	CO3

34	Unification	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	Knowledge Representation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	Semantic Nets	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	Conceptual Dependencies	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	Frames and Scripts	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	Production Rules	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Conceptual Graphs	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41	<b>REMEDIAL CLASS</b>			
42	<b>QUESTION ANSWER DISCUSSION</b>			
43	IV Dealing with Uncertainty	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44	Inconsistencies Truth Maintenance System	LM/ICT/IM	Text books, PPTs	CO4
45	Default Reasoning	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	Probabilistic Reasoning	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47	Probabilistic Reasoning	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48	Bayesian Probabilistic Inference	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49	Possible World Representations	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50	Basics of NLP	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	Basics of NLP	LM/ICT/IM	Text books, PPTs	CO4
52	Basics of NLP	LM/ICT/IM	Text books, PPTs	CO4
53	<b>REMEDIAL CLASS</b>			
54	<b>QUESTION ANSWER DISCUSSION</b>			
55,56,57	I To find the factorial of a number	DM	Lab manual	CO5

58,59,60		To find the permutation of a set	DM	Lab manual	CO5
61,62,63		To implement palindrome	DM	Lab manual	CO5
64,65,66		To implement append for two lists	DM	Lab manual	CO5
67,68,69	II	To solve 8 queens' problem	DM	Lab manual	CO5
70,71,72		To solve 8-puzzle problem using best first search	DM	Lab manual	CO5
73,74,75	III	To implement DFS.	DM	Lab manual	CO5
76,77,78	IV	To implement BFS.	DM	Lab manual	CO5
79			<b>REMEDIAL CLASS</b>		
80			<b>TEST</b>		

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	CC – XIV, Algorithm Design Techniques	CC –XIV, Algorithm Design Techniques Lab
Semester	VI	VI
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Ms. Puspanjali Mallick	Ms. Puspanjali Mallick Smt. Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Algorithm specification: Pseudo code	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Space complexity and time complexity	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Analysis and design of Insertion sort algorithm	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Insertion sort algorithm worst-case time complexity	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Divide and Conquer paradigm	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Recurrence relations	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Recurrence Relations	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Solving Recurrences	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Substitution methods	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Recursion tree method	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Recursion tree method	LM/ICT/IM	Text books, Reference books, PPTs	CO1

12	Master method		LM/ICT/IM	Text books, Reference books, PPTs	CO1
13	Master method		LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		<b>REMEDIAL CLASS</b>			
15		<b>QUESTION ANSWER DISCUSSION</b>			
16	Arithmetic: Addition and Subtraction of Signed Numbers		LM/ICT/IM	Text books, Reference books, PPTs	CO2
17	Searching and Sorting		LM/ICT/IM	Text books, Reference books, PPTs	CO2
18	Analysis of Linear Search		LM/ICT/IM	Text books, Reference books, PPTs	CO2
19					
20	Binary Search		LM/ICT/IM	Text books, Reference books, PPTs	CO2
21	Merge Sort		LM/ICT/IM	Text books, Reference books, PPTs	CO2
22	Quick Sort		LM/ICT/IM	Text books, Reference books, PPTs	CO2
23		<b>REMEDIAL CLASS</b>			
24	Heap Sort.		LM/ICT/IM	Text books, Reference books, PPTs	CO2
25	Hashing: Hash functions, Hash table,		LM/ICT/IM	Text books, Reference books, PPTs	CO2
26	Collision resolution: Chaining and Open Addressing		LM/ICT/IM	Text books, Reference books, PPTs	CO2
27	Linear probing, Quadratic probing		LM/ICT/IM	Text books, PPTs	CO2
28		<b>PRESENTATION BY FAST LEARNERS</b>			
29	Double hashing		LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		<b>PRESENTATION BY FAST LEARNERS</b>			
31	Greedy Technique: General Method, Applications		LM/ICT/IM	Text books, Reference books, PPTs	CO3
32	Fractional Knapsack Problem		LM/ICT/IM	Text books, Reference books, PPTs	CO3

33	Job Sequencing with Deadlines,	LM/ICT/IM	Text books, Reference books, PPTs	CO3
34	Huffman Codes.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	Dynamic Programming:	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	General Method, Applications	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	Matrix Chain Multiplication	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	Matrix Chain Multiplication	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	Longest Common subsequence.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Longest common subsequence	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41		<b>REMEDIAL CLASS</b>		
42		<b>QUESTION ANSWER DISCUSSION</b>		
43	IV Graph Algorithms: Representations of Graphs	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44	Breadth-first search	LM/ICT/IM	Text books, PPTs	CO4
45	Depth-first search	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	Topological sort	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47	Minimum Spanning Trees	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48	Prim's algorithm	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49	Kruskal's Algorithm	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50	Single-source shortest paths	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	Bellman-Ford algorithm	LM/ICT/IM	Text books, PPTs	CO4
52	Dijkstra's algorithm	LM/ICT/IM	Text books, PPTs	CO4
53		<b>REMEDIAL CLASS</b>		
54		<b>QUESTION ANSWER DISCUSSION</b>		

55,56,57	Using C or C++ implement Quick sort.	DM	Lab manual	CO5
58,59,60	Using C or C++ implement Heap sort.	DM	Lab manual	CO5
61,62,63	Using C or C++ implement Merge sort.	DM	Lab manual	CO5
64,65,66	Using C or C++ implement Matrix Multiplication using recursion.	DM	Lab manual	CO5
67,68,69	Using C or C++ implement Linear Search.	DM	Lab manual	CO5
70,71,72	Using C or C++ implement Binary Search.	DM	Lab manual	CO5
73,74,75	Using C or C++ implement Huffman code.	DM	Lab manual	CO5
76,77,78	Using C or C++ implement Fractional knapsack problem. Matrix chain multiplication	DM	Lab manual	CO5
79	<b>REMEDIAL CLASS</b>			
80	<b>TEST</b>			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

Department	COMPUTER SCIENCE	COMPUTER SCIENCE
Course Name	DSE-III, Data Science	DSE-III, Data Science Lab
Semester	VI	VI
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Smt. Swagatika Mohapatra	Smt. Swagatika Mohapatra Smt. Puspanjali Kanungo

Total No. of periods: 41 (Theory) + 27 (Lab) + 12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Introduction to Data science: issues related to various fields of data science.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Principles of data science	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Data Scientist's Tool Box: Turning data into actionable knowledge.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		introduction to the tools that will be used in building data analysis software	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		version control: Types of Version control	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		git, GitHub, R, and RStudio, Mark down	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Exploratory Data Analysis	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Data Science Life cycle, Data Science skill set	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Component of Data Science	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Application of R studio, R studio Advantages of R Studio.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Features and Application of GIT	LM/ICT/IM	Text books, Reference books, PPTs	CO1



12	Architecture of Business Intelligence	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13	Data Transformation, Data Analysis and Requirements	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14	<b>REMEDIAL CLASS</b>			
15	<b>QUESTION ANSWER DISCUSSION</b>			
16	R Programming Basics: Overview of R, features	LM/ICT/IM	Text books, Reference books, PPTs	CO2
17	R data types and objects	LM/ICT/IM	Text books, Reference books, PPTs	CO2
18	reading and writing data	LM/ICT/IM	Text books, Reference books, PPTs	CO2
19	<b>DOUBT CLEARING CLASS</b>			
20	Control structures of R programming	LM/ICT/IM	Text books, Reference books, PPTs	CO2
21	Functions in R, Passing Parameters to R functions	LM/ICT/IM	Text books, Reference books, PPTs	CO2
22	scoping rules,	LM/ICT/IM	Text books, Reference books, PPTs	CO2
23	<b>REMEDIAL CLASS</b>			
24	dates and times in R	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25	Loop functions in R	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26	debugging tools, Simulation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27	code profiling inn R	LM/ICT/IM	Text books, PPTs	CO2
28	<b>PRESENTATION BY FAST LEARNERS</b>			
29	R programming constructs	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30	<b>PRESENTATION BY FAST LEARNERS</b>			
31	Getting and Cleaning Data: Data Preprocessing and Data Cleaning.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
32	Steps involved in Data Cleaning	LM/ICT/IM	Text books, Reference books, PPTs	CO3
33	Data Cleaning Tools	LM/ICT/IM	Text books, Reference books, PPTs	CO3

34	Obtaining data from the web, from APIs	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35	Tidy and Untidy Data	LM/ICT/IM	Text books, Reference books, PPTs	CO3
36	Issues in Data Integration	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37	Web Scraping	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38	Data Transformation Processes: Smoothing, Aggregation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
39	Data Transformation Processes: Generalization, Normalization	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40	Methods of Normalization: Min Max Normalization, Z Score Normalization	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41	<b>REMEDIAL CLASS</b>			
42	<b>QUESTION ANSWER DISCUSSION</b>			
43	Exploratory Data Analysis: Essential exploratory techniques for summarizing data applied before formal modelling commences	LM/ICT/IM	Text books, Reference books, PPTs	CO4
44	Importance of EDA	LM/ICT/IM	Text books, PPTs	CO4
45	EDA Classifications: Data Summarization, Data Visualisation, Data Normalization	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46	eliminating or sharpening potential hypotheses about the world that can be addressed by the data	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47	EDA Techniques: Univariate Analysis.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
48	EDA Techniques: Bivariate analysis	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49	EDA Techniques: Multivariate Analysis.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50	common multivariate statistical techniques used to visualize high-dimensional data.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51	Data Visualization: Dimension Characteristics	LM/ICT/IM	Text books, PPTs	CO4
52	Accuracy, Consistency, uniqueness, Integrity	LM/ICT/IM	Text books, PPTs	CO4
53	<b>REMEDIAL CLASS</b>			
54	<b>QUESTION ANSWER DISCUSSION</b>			
55,56,57	<b>Using R Program – find Factorial of a number</b>	DM	Lab manual	CO5

58,59,60		Permutation of a set	DM	Lab manual	CO5
61,62,63		Checking palindrome	DM	Lab manual	CO5
64,65,66		Appending two lists	DM	Lab manual	CO5
67,68,69	II	To solve 8 queens' problem	DM	Lab manual	CO5
70,71,72		To solve 8-puzzle problem using best first search	DM	Lab manual	CO5
73,74,75	III	Implementing DFS.	DM	Lab manual	CO5
76,77,78	IV	Implementing BFS.	DM	Lab manual	CO5
79			<b>REMEDIAL CLASS</b>		
80			<b>TEST</b>		

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	BOTANY	BOTANY
Course Name	CC-XIV	CC - XIV, LAB PLANT BIOTECHNOLOGY
Semester	V	V
No of Weeks	8	9
No of Periods/week	3	3
Teacher's Name	DR PRASANTA KUMAR SAMANTRAY	DR PRASANTA KUMAR SAMANTRAY, GANGADHAR SETHI (LA)

Total No. of periods: 24 (Theory) + 27 (Lab) = 51

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I	Plant Tissue Culture: Historical perspective; Aseptic tissue culture techniques,	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Composition of media, Totipotency; Organogenesis; Embryogenesis (somatic and zygotic);	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Protoplast isolation, culture and fusion;	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2	1		Tissue culture applications (micropropagation) Androgenesis, virus elimination,	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Secondary metabolite production, haploids, triploids and hybrids	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Cryopreservation; Germplasm Conservation)	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3	1	II	Recombinant DNA technology-I: Restriction Endonucleases History, Types I-IV,	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Biological role and it, s application, Restriction Mapping (Linear and Circular);	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Cloning Vectors:	LM/ICT/IM	Text books, Reference books, PPTs	CO1

			Prokaryotic (pUC 18 and pUC19, pBR322, Ti plasmid, BAC); Lambda phage, M13 phagemid, Cosmid, Shuttle vector			
4	1		Eukaryotic Vectors (YAC and briefly PAC, MAC, HAC).	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Gene Cloning (Recombinant DNA, Bacterial Transformation and selection of recombinant clones, PCR-mediated gene cloning).	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Remedial Class	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5	1	III	, Recombinant DNA technology-II: Gene Construct; construction of genomic and cDNA libraries,	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		screening DNA libraries to obtain gene of interest by genetic selection; complementation, colony hybridization; Probes-oligonucleotide, heterologous,	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Methods of gene transfer- Agrobacterium-mediated Gene transfer	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6	1		Direct gene transfer by Electroporation, Microinjection, Microprojectile bombardment	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	2		Selection of transgenics– selectable marker	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	3		Reporter genes (Luciferase, GUS, GFP). Remedial Class	LM/ICT/IM	Text books, Reference books, PPTs	CO2
7	1	IV	Applications of Biotechnology: Pest resistant (Bt-cotton); herbicide resistant plants (Round Up Ready soybean)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	2		Transgenic crops with improved quality traits (Flavr Savr tomato, Golden rice)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	3		Improved horticultural varieties (Moon dust carnations) Role of transgenics in bioremediation (Superbug)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
8	1		edible 31 vaccines, Industrial enzymes (Protease, Lipase)	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	2		Genetically Engineered Products-Human Growth Hormone; Humulin;	LM/ICT/IM	Text books, Reference books, PPTs	CO2

	3	Biosafety concerns. Remedial Class	LM/ICT/IM	Text books, Reference books, PPTs	CO2
		<b>CORE – XIV, LAB</b>			
1	1	i. Preparation of tissue culture (MS) medium.	DM	Lab manual	CO5
	2				
	3				
2	1	ii. Demonstration of in vitro sterilization and inoculation methods using leaf and nodal explants of tobacco.	DM	Lab manual	CO5
	2				
	3				
3	1	iii. Demonstration of in vitro sterilization and inoculation methods using leaf and nodal explants of Datura, Brassica	DM	Lab manual	CO5
	2				
	3				
4	1	iv. Study of another culture through photographs . . Study of Bt. cotton through photographs.	DM	Lab manual	CO5
	2				
	3				
5	1	v. Preparation of artificial seeds	DM	Lab manual	CO5
	2				
	3				
6	1	vi. Isolation of plasmid DNA	DM	Lab manual	CO5
	2				
	3				
7	1	vii. Gel electrophoresis (demonstration)	DM	Lab manual	CO5
	2				
	3				
8	1	Practice Class	DM	Lab manual	CO5
	2				
	3				
9	1	Practice Class	DM	Lab manual	CO5
	2				
	3				

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	BOTANY
Course Name	CC-VIII, MOLECULAR BIOLOGY
Semester	III
No of Weeks	8
No of Periods/week	3
Teacher's Name	DR PRASANTA KUMAR SAMANTRAY

Total No. of periods: 24 (Theory)

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I	<b>Nucleic acids:</b> Carriers of genetic information: Historical perspective	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		DNA as the carrier of genetic information (Griffith's, Hershey & Chase, Avery, McLeod & McCarty),	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Types of genetic material, denaturation and renaturation, cot curves. Organization of DNA	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2	1		Structure of RNA- Prokaryotes, Viruses, Eukaryotes, Fraenkel-Conrat's experiment	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Organelle DNA - Mitochondria and Chloroplast DNA	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		The Nucleosome -Chromatin structure Euchromatin, Heterochromatin- Constitutive and Facultative heterochromatin.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3	1	II	<b>The replication of DNA:</b> Chemistry of DNA synthesis (Kornberg's discovery);	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	2		General principles – bidirectional, semi-conservative and semi discontinuous replication,	LM/ICT/IM	Text books, Reference books, PPTs	CO2

3			RNA priming; Various models of DNA replication, replication of linear dsDNA, replication of the 5' end of linear chromosome;	LM/ICT/IM	Text books, Reference books, PPTs	CO2
4	1		Enzymes involved in DNA replication, <b>Central dogma and genetic code:</b> Key experiments establishing-The Central Dogma (Woobler Hypothesis),	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	2		Genetic code (deciphering & salient features) , <b>Processing and modification of RNA:</b> Split genes- concept of introns and exons, Removal of introns, spliceosome machinery, splicing pathways, group I & group II intron splicing,	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	3		Eukaryotic mRNA processing (5' cap, 3' polyA tail); Ribozymes, exon shuffling; RNA editing and mRNA transport.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
5	1	III	<b>Mechanism of Transcription:</b> prokaryotes	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	2		<b>Mechanism of Transcription</b> in eukaryotes	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	3		<b>Regulation of transcription in prokaryotes and eukaryotes:</b> Principles of transcriptional regulation; Prokaryotes: Operon concept Regulation of lactose metabolism and tryptophan synthesis in E. coli.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
6	1		Eukaryotes: transcription factors, heat shock proteins, steroids and peptide hormones;	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	2		Gene silencing	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	3		Remedial Class	LM/ICT/IM	Text books, Reference books, PPTs	CO3
7	1	IV	<b>Translation (Prokaryotes and eukaryotes):</b> Ribosome structure and assembly; Charging of tRNA, aminoacyl tRNA synthetases	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	2		Various steps in protein synthesis	LM/ICT/IM	Text books, Reference books, PPTs	CO4



SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	BOTANY
Course Name	CC-VIII, MOLECULAR BIOLOGY
Semester	III
No of Weeks	8
No of Periods/week	3
Teacher's Name	DR PRASANTA KUMAR SAMANTRAY

Total No. of periods: 24 (Theory)

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I	<b>Nucleic acids:</b> Carriers of genetic information: Historical perspective	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		DNA as the carrier of genetic information (Griffith's, Hershey & Chase, Avery, McLeod & McCarty),	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Types of genetic material, denaturation and renaturation, cot curves. Organization of DNA	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2	1		Structure of RNA- Prokaryotes, Viruses, Eukaryotes, Fraenkel-Conrat's experiment	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Organelle DNA - Mitochondria and Chloroplast DNA	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		The Nucleosome -Chromatin structure Euchromatin, Heterochromatin- Constitutive and Facultative heterochromatin.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3	1	II	<b>The replication of DNA:</b> Chemistry of DNA synthesis (Kornberg's discovery);	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	2		General principles – bidirectional, semi-conservative and semi discontinuous replication,	LM/ICT/IM	Text books, Reference books, PPTs	CO2

3		RNA priming; Various models of DNA replication, replication of linear dsDNA, replication of the 5' end of linear chromosome;	LM/ICT/IM	Text books, Reference books, PPTs	CO2
4	1	Enzymes involved in DNA replication, <b>Central dogma and genetic code:</b> Key experiments establishing-The Central Dogma (Woobler Hypothesis),	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	2	Genetic code (deciphering & salient features) , <b>Processing and modification of RNA:</b> Split genes- concept of introns and exons, Removal of introns, spliceosome machinery, splicing pathways, group I & group II intron splicing,	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	3	Eukaryotic mRNA processing (5' cap, 3' polyA tail); Ribozymes, exon shuffling; RNA editing and mRNA transport.	LM/ICT/IM	Text books, Reference books, PPTs	CO2
5	1	<b>Mechanism of Transcription:</b> Transcription in prokaryotes	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	2	Transcription in eukaryotes	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	3	<b>Regulation of transcription in prokaryotes and eukaryotes:</b> Principles of transcriptional regulation; Prokaryotes: Operon concept Regulation of lactose metabolism and tryptophan synthesis in E. coli.	LM/ICT/IM	Text books, Reference books, PPTs	CO3
6	1	Eukaryotes: transcription factors, heat shock proteins, steroids and peptide hormones;	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	2	Gene silencing	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	3	Remedial Class	LM/ICT/IM	Text books, Reference books, PPTs	CO3
7	1	<b>Translation (Prokaryotes and eukaryotes):</b> Ribosome structure and assembly; Charging of tRNA, aminoacyl tRNA synthetases	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	2	Various steps in protein synthesis	LM/ICT/IM	Text books, Reference books, PPTs	CO4

	3	Proteins involved in initiation, elongation and termination of polypeptides;	LM/ICT/IM	Text books, Reference books, PPTs	CO4
8	1	Fidelity of translation; Inhibitors of protein synthesis	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	2	Post translational modifications of proteins.	LM/ICT/IM	Text books, Reference books, PPTs	CO4
	3	Remedial Class	LM/ICT/IM	Text books, Reference books, PPTs	CO4

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc),

CORE – VIII, LAB

1	1	i. Preparation of LB medium and raising E. coli. material.	DM	Lab manual	CO5
	2				
	3				
2	1	ii. Isolation of genomic DNA from suitable plant	DM	Lab manual	CO5
	2				
	3				
3	1	iii. RNA estimation by orcinol method	DM	Lab manual	CO5
	2				
	3				
4	1	iv. DNA estimation by diphenylamine reagent/UV Spectrophotometry	DM	Lab manual	CO5
	2				
	3				
5	1	v. Photographs establishing nucleic acid as genetic material (Messelson and Stahl's, Avery et al, Griffith's, Hershey & Chase's and Fraenkel & Conrat's experiments)	DM	Lab manual	CO5
	2				
	3				
6	1	vi. Study of Barr body from buccal smear preparation.	DM	Lab manual	CO5
	2				
	3				
7	1	Practice Class	DM	Lab manual	CO5
	2				
	3				
8	1	Practice Class	DM	Lab manual	CO5
	2				
	3				
9	1	Practice Class	DM	Lab manual	CO5
	2				

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	BOTANY	BOTANY
Course Name	CC-XII	CC - XII, LAB PLANT PHYSIOLOGY
Semester	V	V
No of Weeks	8	9
No of Periods/week	3	3
Teacher's Name	SARASWATI MAJHI	SARASWATI MAJHI, GANGADHAR SETHI

Total No. of periods: 24 (Theory) + 27 (Lab) = 51

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I	Plant water relationship: Water Potential and its components	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2	2		Plasmolysis and imbibitions, water absorption by roots	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3	3		Aquaporins, pathway of water movement, symplast, apoplast,	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2	1		Trans-membrane pathways, root pressure, guttation.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3	2		Ascent of sap- cohesion-tension theory.	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3	3		Transpiration and factors affecting transpiration,	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3	1		Antitranspirants, mechanism of stomatal movement	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Remedial Class	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Translocation in the phloem: Experimental evidence in support of phloem as the site of sugar translocation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4	1		Pressure-Flow Model; Phloem loading and unloading;	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Source- sink relationship	LM/ICT/IM	Text books, Reference books, PPTs	CO1

							books, PPTs	
	3		Remedial Class			LM/ICT/IM	Text books, Reference books, PPTs	CO1
5	1	II	Mineral nutrition: Essential and beneficial elements, macro and micronutrients,			LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Methods of study and use of nutrient solutions, c			LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Criteria for essentiality, mineral deficiency symptoms, roles of essential elements,			LM/ICT/IM	Text books, Reference books, PPTs	CO1
6	1		Chelating agents.			LM/ICT/IM	Text books, Reference books, PPTs	CO2
	2		Remedial Class			LM/ICT/IM	Text books, Reference books, PPTs	CO2
	3		Nutrient Uptake: Soil as a nutrient reservoir			LM/ICT/IM	Text books, Reference books, PPTs	CO2
7	1		Transport of ions across cell membrane			LM/ICT/IM	Text books, Reference books, PPTs	CO2
	2		Passive absorption, electrochemical gradient			LM/ICT/IM	Text books, Reference books, PPTs	CO2
	3		Facilitated diffusion, active absorption, role of ATP, carrier systems			LM/ICT/IM	Text books, Reference books, PPTs	CO2
8	1		Proton ATPase pump and ion flux			LM/ICT/IM	Text books, Reference books, PPTs	CO2
	2		Uniport, co-transport, symport, and antiport.			LM/ICT/IM	Text books, Reference books, PPTs	CO2
	3		Remedial Class			LM/ICT/IM	Text books, Reference books, PPTs	CO2
			CC – XII, LAB					
1	1		. Determination of osmotic potential of plant cell sap by plasmolytic method		DM		Lab manual	CO5
	2							
	3							
2	1	i	2. Determination of water potential of given tissue (potato tuber) by weight method.		DM		Lab manual	CO5
	2							
	3							
3	1		3. Study of the effect of wind velocity and light on the rate of transpiration in excised twig/leaf.		DM		Lab manual	CO5
	2							
	3		8. To demonstrate suction due to transpiration.					
4	1		4. Calculation of stomatal index and stomatal		DM		Lab manual	CO5

2		frequency from the two surfaces of leaves of a mesophyte and xerophyte.			
3					
5	1	5. To calculate the area of an open stoma and percentage of leaf area open through stomata in a mesophyte and xerophyte (both surfaces).	DM	Lab manual	CO5
2					
3					
6	1	6. To study the phenomenon of seed germination (effect of light).	DM	Lab manual	CO5
2					
3					
7	1	7. To study the induction of amylase activity in germinating barley grains	DM	Lab manual	CO5
2					
3					
8	1	9. Measurement of relation between transpiration and transpiring surface.	DM	Lab manual	CO5
2					
3					
9	1	10. Measurement of cuticular resistance to transpiration.	DM	Lab manual	CO5
2					
3					

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

### SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

#### TEACHING PLAN 2022-23

Department	BOTANY
Course Name	CC-VII(GENETICS)
Semester	III
No of Weeks	8
No of Periods/week	3
Teacher's Name	SARASWATI MAJHI

Total No. of periods: 24 (Theory)

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I	History; Principles of inheritance	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2	2		Chromosome theory of inheritance	LM/ICT/IM	Text books, Reference books, PPTs	CO1

	3		Autosomes and sex chromosomes	LM/ICT/IM	Text books, Reference books, PPTs	COI
2	1		Incomplete dominance	LM/ICT/IM	Text books, Reference books, PPTs	COI
	2		codominance	LM/ICT/IM	Text books, Reference books, PPTs	COI
	3		Multiple alleles	LM/ICT/IM	Text books, Reference books, PPTs	COI
3	1		Lethal alleles	LM/ICT/IM	Text books, Reference books, PPTs	COI
	2		Remedial Class	LM/ICT/IM	Text books, Reference books, PPTs	COI
	3		Epistasis	LM/ICT/IM	Text books, Reference books, PPTs	COI
4	1		Pleiotropy	LM/ICT/IM	Text books, Reference books, PPTs	COI
	2		Recessive and Dominant traits	LM/ICT/IM	Text books, Reference books, PPTs	COI
	3		Remedial Class	LM/ICT/IM	Text books, Reference books, PPTs	COI
5	1	II	Penetrance	LM/ICT/IM	Text books, Reference books, PPTs	COI
	2		Expressivity	LM/ICT/IM	Text books, Reference books, PPTs	COI
	3		Polygenic inheritance	LM/ICT/IM	Text books, Reference books, PPTs	COI
6	1		Supplementary gene , Complementary gene	LM/ICT/IM	Text books, Reference books, PPTs	COI
	2		Remedial Class	LM/ICT/IM	Text books, Reference books, PPTs	COI
	3		Pedigree analysis	LM/ICT/IM	Text books, Reference books, PPTs	COI
7	1		Chloroplast mutation: Variegation in Four o'clock plant	LM/ICT/IM	Text books, Reference books, PPTs	COI
	2		Mitochondrial mutations in yeast	LM/ICT/IM	Text books, Reference books, PPTs	COI
	3		cytoplasmic male sterility	LM/ICT/IM	Text books, Reference books, PPTs	COI
8	1		Maternal effects- shell coiling in snail	LM/ICT/IM	Text books, Reference books, PPTs	COI



2	Infective heredity- Kappa particles in Paramecium	LM/ICT/IM	Text books, Reference books, PPTs	COI
3	Remedial Class	LM/ICT/IM	Text books, Reference books, PPTs	COI

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc),

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	BOTANY		BOTANY
Course Name	DSE-2, Natural resource and management (Unit-I & II)		DSE-2, Natural resource and management (PRACTICAL)
Semester	V		V
No of Weeks	5		5
No of Periods/week	5		3
Teacher's Name	SOMANI JETHI		SOMANI JETHI, GANGADHAR SETHI
Total No. of periods: 25(Theory) + 15(Lab) = 40			

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I	Natural Resources: Definition and types	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Sustainable utilization: concept and approaches	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Economic sustainable approaches	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	4		Ecological sustainable approaches	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	5		Sociocultural sustainable approaches	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2	1		Agricultural land utilization	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Horticultural land utilization	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Silvicultural land utilization	LM/ICT/IM	Text books, Reference books, PPTs	CO1

4	Soil degradation and management	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5	River water harvesting technology	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3	Lake water harvesting technology	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2	Ground water harvesting technology	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3	Rain water storage and utilization	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4	Revision Class	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5	Seminar	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4	Biodiversity: definition and types	LM/ICT/IM	Text books, Reference books, PPTs	CO2
2	Significance of Biodiversity	LM/ICT/IM	Text books, Reference books, PPTs	CO2
3	Threats of Biodiversity	LM/ICT/IM	Text books, Reference books, PPTs	CO2
4	Biodiversity: management strategies	LM/ICT/IM	Text books, Reference books, PPTs	CO2
5	Bioprospecting	LM/ICT/IM	Text books, Reference books, PPTs	CO2
5	CBD and National Biodiversity Action Plan	LM/ICT/IM	Text books, Reference books, PPTs	CO2
2	Forest: Definition, cover and its significance	LM/ICT/IM	Text books, Reference books, PPTs	CO2
3	Major and Minor forest products	LM/ICT/IM	Text books, Reference books, PPTs	CO2
4	Depletion of forest and its management	LM/ICT/IM	Text books, Reference books, PPTs	CO2

	5	seminar	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>DSE 2: LAB</b>					
1	1	Estimation of solid waste generated by a domestic system(biodegradable and non-biodegradable) and its impact on land degradation	DM	Lab manual	CO5
	2				
	3				
2	1	Measurement of dominance of woody species by DBH method	DM	Lab manual	CO5
	2				
	3				
3	1	Determination of soil texture, Ph, soil porosity and moisture content of soil samples collected from two different sites.	DM	Lab manual	CO5
	2				
	3				
4	1	Adaptations of plants: Hydrophytes, Xerophytes and Mesophytes	DM	Lab manual	CO5
	2				
	3				
5	1	Female gametophyte through permanent slides	DM	Lab Manual	CO5
	2				
	3				

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	BOTANY
Course Name	CC-XIII (Plant Metabolism)
Semester	VI
No of Weeks	8
No of Periods/week	3
Teacher's Name	SOMANI JETHI

Total No. of periods: 24 (Theory)

Week	Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	1	I (i)	Concept of metabolism: Introduction and regulation of metabolism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Anabolic and catabolic pathways	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Role of allosteric enzymes in metabolism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2	1		Role of covalent modulation in metabolism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Role of isozymes in metabolism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Class revision I (Short type question)	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3	1		Class revision II (Long type question)	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Question/answer discussion	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Remedial Classes	LM/ICT/IM	Text books, Reference	CO1

4	1	I(ii)	Mechanisms of signal transduction : Calcium	LM/ICT/IM	books, PPTs	CO1
	2		Mechanisms of signal transduction : Phospholipids	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Mechanisms of signal transduction : cGMP	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5	1		Mechanisms of signal transduction : NO	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2	III (ii)	ATP Synthesis: Mechanism of ATP synthesis	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Substrate level phosphorylation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6	1		Chemiosmotic mechanism (oxidative)	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Chemiosmotic mechanism (photo-phosphorylation)	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		ATP synthase	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7	1		Boyer's conformational model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Racker's experiment	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Jagendorf's experiment	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8	1		Role of uncouplers	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	2		Class Test	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	3		Q/A discussion and Remedial Class	LM/ICT/IM	Text books, Reference books, PPTs	CO1

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc),



## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	CHEMISTRY	CHEMISTRY
Course Name	CC – VI, Organic Chemistry - II	CC – VI, LAB Organic Chemistry
Semester	III	III
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Dr Swapna Sankar Nayak	DrSwapna Sankar Nayak, Ms Subhashree Maharana

Total No. of periods: 41 (Theory) + 27 (Lab)+12 (Others) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Alkyl halides: Methods of preparation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Nucleophilic substitution reactions – SN1 mechanisms	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Nucleophilic substitution reactions –SN2 mechanisms	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Nucleophilic substitution reactions –SNi mechanisms	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		<b>REMEDIAL CLASS</b>			
6		Effect of solvents on SN1, SN2 and SNi mechanisms	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Relative reactivity of alkyl halides towards nucleophilic substitution reactions	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Relative reactivity of allyl/benzyl halides towards nucleophilic substitution reactions	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		<b>DOUBT CLEARING CLASS</b>			
10		Nucleophilic substitution vs. elimination	LM/ICT/IM	Text books, Reference books, PPTs	CO1



11		Aryl halides: Preparation including preparation from diazonium salts	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		Nucleophilic aromatic substitution; $S_NAr2$	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Benzynes mechanism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		Organometallic compounds of Mg, Preparation of Grignard Reagent Synthetic applications	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Organo-Lithium compounds and their synthetic uses	LM/ICT/IM	Text books, Reference books, PPTs	CO1
16	II	Alcohols: preparation, properties	LM/ICT/IM	Text books, Reference books, PPTs	CO2
17		<b>REMEDIAL CLASS</b>			
18		Relative reactivity of $1^\circ$ , $2^\circ$ , $3^\circ$ alcohols	LM/ICT/IM	Text books, Reference books, PPTs	CO2
19		Bouveault-Blanc Reduction Preparation and properties of glycols	LM/ICT/IM	Text books, Reference books, PPTs	CO2
20		Oxidation of glycols by periodic acid and lead tetraacetate	LM/ICT/IM	Text books, Reference books, PPTs	CO2
21		Pinacol-Pinacolone rearrangement	LM/ICT/IM	Text books, Reference books, PPTs	CO2
22		Phenols: Preparation, properties, Ring substitution reactions in phenols	LM/ICT/IM	Text books, Reference books, PPTs	CO2
23		<b>QUESTION ANSWER DISCUSSION</b>			
24		Reimer-Tiemann and Kolbe's-Schmidt Reactions	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Fries and Claisen rearrangements	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Ethers: Preparation and reactions	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Epoxides: Preparation, reactions with acids	LM/ICT/IM	Text books, PPTs	CO2
28		<b>REEDIAL CMLASS</b>			
29		Reactions of epoxides with ammonia derivatives	LM/ICT/IM	Text books, Reference	CO2

		and LiAlH <sub>4</sub>		books, PPTs	
30	III	Structure, reactivity and preparation of Carbonyl compounds	LM/ICT/IM	Text books, Reference books, PPTs	CO3
31		Nucleophilic addition-elimination reactions with ammonia derivatives with mechanism	LM/ICT/IM	Text books, Reference books, PPTs	CO3
32		Mechanisms of Aldol and Benzoin condensation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
33		Knoevenagel condensation, Claisan-Schmidt reaction	LM/ICT/IM	Text books, Reference books, PPTs	CO3
34		Perkin, Cannizzaro and Wittig reaction Beckmann and Benzil-Benzilic acid rearrangements	LM/ICT/IM	Text books, Reference books, PPTs	CO3
35		<b>QUESTION ANSWER DISCUSSION</b>			
36		Beckmann rearrangements, $\alpha$ halo form reaction and Baeyer Villiger oxidation,	LM/ICT/IM	Text books, Reference books, PPTs	CO3
37		Clemmensen, Wolff-Kishner Reductions	LM/ICT/IM	Text books, Reference books, PPTs	CO3
38		<b>PRESENTATION BY FAST LEARNERS</b>			
39		Active methylene compounds Keto-enol tautomerism	LM/ICT/IM	Text books, Reference books, PPTs	CO3
40		Preparation and synthetic applications of diethyl malonate	LM/ICT/IM	Text books, Reference books, PPTs	CO3
41		Preparation and synthetic applications of Acetoacetic ester	LM/ICT/IM	Text books, Reference books, PPTs	CO3
42	IV	Preparation, physical properties of monocarboxylic acids	LM/ICT/IM	Text books, Reference books, PPTs	CO4
43		Reactions of monocarboxylic acids	LM/ICT/IM	Text books, PPTs	CO4
44		<b>REMEDIAL CLASS</b>			
45		Typical reactions of lactic, malic acids tartaric, citric, maleic and fumaric acids	LM/ICT/IM	Text books, Reference books, PPTs	CO4
46		Preparation and reactions of esters and amides Typical reactions of maleic and fumaric acids	LM/ICT/IM	Text books, Reference books, PPTs	CO4
47		Preparation and reactions of acid chlorides,	LM/ICT/IM	Text books, Reference	CO4

		anhydrides		books, PPTs	
48		Comparative study of nucleophilic substitution at acyl group	LM/ICT/IM	Text books, Reference books, PPTs	CO4
49		Mechanism of hydrolysis of esters Claisen condensation, Dieckmann reactions	LM/ICT/IM	Text books, Reference books, PPTs	CO4
50		Reformatsky reactions, Hofmannbromamide degradation, Curtius rearrangement	LM/ICT/IM	Text books, Reference books, PPTs	CO4
51		<b>REMEDIAL CLASS</b>			
52		Preparation and reactions of thioethers	LM/ICT/IM	Text books, PPTs	CO4
53		Preparation and reactions of sulphonic acids	LM/ICT/IM	Text books, PPTs	CO4
54,55,56	i	Acetylation of aniline using conventional method.	DM	Lab manual	CO5
57,58,59		Acetylation of aniline using green approach.	DM	Lab manual	CO5
60,61,62		Acetylation of phenol using conventional method.	DM	Lab manual	CO5
63,64,65		Acetylation of phenol using green approach.	DM	Lab manual	CO5
66,67,68	ii	Benzoylation aniline by Schotten-Baumann reaction.	DM	Lab manual	CO5
69,70,71		Benzoylation phenol by Schotten-Baumann reaction.	DM	Lab manual	CO5
72,73,74	iii	Bromination of Acetanilide by conventional methods	DM	Lab manual	CO5
75,76,77	iv	Nitration of Acetanilide by conventional method	DM	Lab manual	CO5
78		<b>REMEDIAL CLASS</b>			
79		<b>QUESTION ANSWER DISCUSSION</b>			
80		<b>TEST</b>			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE	
Course Name	OE-201, GENDER AND POLITICS	
Semester	II	
No of Weeks	11	
No of Periods/week	5	
Teacher's Name	Sri Krushna Chandra Swain	

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Women and Public Policy	LM/DM	Text books, Reference books, PPTs	CO1
2		What is public policy? Objectives of Public policy.	LM/DM	Text books, Reference books, PPTs	CO1
3		Public Policy related to women's Health.	LM/DM	Text books, Reference books, PPTs	CO1
4		Policies and programmes for improving health of women.	LM/DM	Text books, Reference books, PPTs	CO1
5		Education and gender inequality: an Overview	LM/DM	Text books, Reference books, PPTs	CO1
6		Factors affecting female enrolment and retention	LM/DM	Text books, Reference books, PPTs	CO1
7		Non-formal Education and Adult Education	LM/DM	Text books, Reference books, PPTs	CO1 CO1
8		What is Gender Budgeting? Why it is important?	LM/DM	Text books, Reference	CO1

				books, PPTs	
9		Women Role in Policy formulation.	LM/DM	Text books, Reference books, PPTs	CO1
10		Gendering development through public policy	LM/DM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
11		Gender budgeting in Urban local bodies	LM/DM	Text books, Reference books, PPTs	CO1
12		Reproductive and Child Health programme	LM/DM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
13		Causal factors relating women's ill health	LM/DM	Text books, Reference books, PPTs	CO1
14	II	Women in Politics	LM/DM	Text books, Reference books, PPTs	CO2
15		What is the role of women in Politics?	LM/DM	Text books, Reference books, PPTs	CO2
16		Political Participation :Formal and Informal	LM/DM	Text books, Reference books, PPTs	CO2
17		Issues of Women Reservation	LM/DM	Text books, Reference books, PPTs	CO2
18		Globalization and women: Introduction	LM/DM	Text books, Reference books, PPTs	CO2
19		Economic role of women in Globalization	LM/DM	Text books, Reference books, PPTs	CO2
20		Marginalization of women in Globalization	LM/DM	Text books, Reference books, PPTs	CO2
21		Women and Politics in India: introduction	LM/DM	Text books, Reference books, PPTs	CO2
22		Women's political Participation In 20 <sup>th</sup> Century	LM/DM	Text books, Reference books, PPTs	CO2
23		Women 's development initiative in political system	LM/DM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					

24		Challenges faced by the women in political participation	LM/DM	Text books, Reference books, PPTs	CO2
25		Role of women in Indian Society	LM/DM	Text books, Reference books, PPTs	CO2
26		<b>DOUBT CLEAR CLASS</b>			
27		Status of political representation of women in the world	LM/DM	Text books, Reference books, PPTs	CO2
28	III	Human Rights and Gender: Introduction	LM/DM	Text books, Reference books, PPTs	CO3
29		Generations of Human rights	LM/DM	Text books, Reference books, PPTs	CO3
30		Dimensions of human rights	LM/DM	Text books, Reference books, PPTs	CO3
31		Protection of Human Rights	LM/DM	Text books, Reference books, PPTs	CO3
32		Prevent gender based discrimination	LM/DM	Text books, Reference books, PPTs	CO3
33		Women identity and Gender construction	LM/DM	Text books, Reference books, PPTs	CO3
34		Violation women's right	LM/DM	Text books, Reference books, PPTs	CO3
35		Laws and policies to protect women rights	LM/DM	Text books, Reference books, PPTs	CO3
36		Institutional mechanism to protect HRs	LM/DM	Text books, Reference books, PPTs	CO3
37		Constitutional Provision to Protect HRs	LM/DM	Text books, Reference books, PPTs	CO3
		<b>REMEDIAL CLASS</b>			
38		Specific rights of women	LM/DM	Text books, Reference books, PPTs	CO3
39		Role of Human Rights Commission	LM/DM	Text books, Reference books, PPTs	CO3
		<b>DOUBT CLEAR CLASS</b>			

40		Human Rights and Trafficking of women	LM/DM	Text books, Reference books, PPTs	CO3
41		Human development: introduction and meaning	LM/DM	Text books, Reference books, PPTs	CO4
42		Features of human development	LM/DM	Text books, Reference books, PPTs	CO4
43			LM/DM	Text books, Reference books, PPTs	CO4
44		Womens participation in development	LM/DM	Text books, Reference books, PPTs	CO4
45		Different stages to human development	LM/DM	Text books, Reference books, PPTs	CO4
46		Human development and gender issues	LM/DM	Text books, Reference books, PPTs	CO4
47		Human development index measurement	LM/DM	Text books, PPTs	CO4
48		Human development and Human poverty index	LM/DM	Text books, PPTs	CO4
49		Gender and constitution : women in india	LM/DM	Lab manual	CO5
50		Policies and planning for women development	DM	Lab manual	CO5
			DM	Lab manual	CO5
			DM	Lab manual	CO5
51	v	Women's development initiatives in health	DM	Lab manual	CO5
52		Women and mental health	DM	Lab manual	CO5
53		Women's development initiative in health	DM	Lab manual	CO5
54		Women and population policy : introduction	DM	Lab manual	CO5
55		Empowerment of women policies and programme	LM/DM	Text books, Reference books, PPTs	CO5
56		Governemnt provision regarding population policies	LM/DM	Text books, Reference books, PPTs	CO5
57		Women, health and population	LM/DM	Text books, Reference books, PPTs	CO5
58		Women and education	LM/DM	Text books, Reference	CO5

				books, PPTs	
59		Empowering women: The role of education	LM/DM	Text books, Reference books, PPTs	CO5
60		Significance of women's education	LM/DM	Text books, Reference books, PPTs	CO5
61		<b>REMEDIAL CLASS</b>			
62		Steps taken by the government for women Development	LM/DM		CO5
63		Contemporary women issues: Health and educational aspects	LM/DM		
64		Governmental provision to protect women right			
		<b>DOUBT CLEARING CLASS</b>			
65		Challenges faced by women due to increase in Population	LM/DM		
		<b>Question Answer Discussion</b>			
66		Women education and its impact on society			
67					

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)



## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE	
Course Name	HC-104 CONTEMPORARY POLITICAL THEORY	
Semester	I	
No of Weeks	11	
No of Periods/week	5	
Teacher's Name	Moushumi Pattanaik	

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Nature of political theory	LM/DM	Text books, Reference books, PPTs	CO1
2		Approaches to the study of political theory	LM/DM	Text books, Reference books, PPTs	CO1
3		The need of political theory	LM/DM	Text books, Reference books, PPTs	CO1
4		Political arguments and conceptual analysis	LM/DM	Text books, Reference books, PPTs	CO1
5		Decline of political theory	LM/DM	Text books, Reference books, PPTs	CO1
6		Resurgence of political theory	LM/DM	Text books, Reference books, PPTs	CO1
7		Approaches of political theory	LM/DM	Text books, Reference books, PPTs	CO1
8		Contemporary issues of political theory	LM/DM	Text books, Reference books, PPTs	CO1
9		Behaviouralism	LM/DM	Text books, Reference books, PPTs	CO1

10		Post-Behaviouralism	LM/DM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
11		What is political theory and why study it	LM/DM	Text books, Reference books, PPTs	CO1
12		Significance of political theory	LM/DM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
13		Concept of political theory	LM/DM	Text books, Reference books, PPTs	CO1
14	II	Liberal approaches of state	LM/DM	Text books, Reference books, PPTs	CO2
15		Criticism of liberal theory of state	LM/DM	Text books, Reference books, PPTs	CO2
16		Neo-liberal approaches of state	LM/DM	Text books, Reference books, PPTs	CO2
17		criticism of neo-liberal theory	LM/DM	Text books, Reference books, PPTs	CO2
18		Marxist perspective of state	LM/DM	Text books, Reference books, PPTs	CO2
19		Pluralist perspective of state	LM/DM	Text books, Reference books, PPTs	CO2
20		Contemporary feminist discourse perspective	LM/DM	Text books, Reference books, PPTs	CO2
21		Post-colonial view of state	LM/DM	Text books, Reference books, PPTs	CO2
22		Feminist perspective of state	LM/DM	Text books, Reference books, PPTs	CO2
23		Theories of state	LM/DM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
24		Neo-liberal approaches of state	LM/DM	Text books, Reference books, PPTs	CO2
25		Contemporary feminist discourse perspective	LM/DM	Text books, Reference	CO2

				books, PPTs	
26		<b>DOUBT CLEAR CLASS</b>			
27		Critical analysis of post-colonial state	LM/DM	Text books, Reference books, PPTs	CO2
28	III	Democracy : Introduction	LM/DM	Text books, Reference books, PPTs	CO3
29		Classical democracy	LM/DM	Text books, Reference books, PPTs	CO3
30		Modern democracy	LM/DM	Text books, Reference books, PPTs	CO3
31		Contemporary models of democracy	LM/DM	Text books, Reference books, PPTs	CO3
32		Distinguish between classical and contemporary democracy	LM/DM	Text books, Reference books, PPTs	CO3
33		Representative democracy	LM/DM	Text books, Reference books, PPTs	CO3
34		Features of Representative democracy	LM/DM	Text books, Reference books, PPTs	CO3
35		Participatory democracy	LM/DM	Text books, Reference books, PPTs	CO3
36		Deliberative democracy	LM/DM	Text books, Reference books, PPTs	CO3
37		Difference between participatory and deliberative democracy	LM/DM	Text books, Reference books, PPTs	CO3
		<b>REMEDIAL CLASS</b>			
38		Critical analysis of classical democracy	LM/DM	Text books, Reference books, PPTs	CO3
39		Pluralist democracy	LM/DM	Text books, Reference books, PPTs	CO3
		<b>DOUBT CLEAR CLASS</b>			
40		Elitist theory of democracy	LM/DM	Text books, Reference books, PPTs	CO3

41	IV	Justice : Introduction	LM/DM	Text books, Reference books, PPTs	CO4
42		General introduction of John Rawls	LM/DM	Text books, Reference books, PPTs	CO4
43		Rawls Theory of Justice	LM/DM	Text books, Reference books, PPTs	CO4
44		Original position	LM/DM	Text books, Reference books, PPTs	CO4
45		Veil of ignorance	LM/DM	Text books, Reference books, PPTs	CO4
46		Difference principles	LM/DM	Text books, Reference books, PPTs	CO4
47		Critical analysis of Rawls's Theory of justice	LM/DM	Text books, PPTs	CO4
48		Rawls views on Justice as Fairness	LM/DM	Text books, PPTs	CO4
49		Rawls as an Egalitarianism	LM/DM	Lab manual	CO5
50		Nozick's views on Rawls	DM	Lab manual	CO5
		Amartya Sen's views on Rawls	DM	Lab manual	CO5
			DM	Lab manual	CO5
51	v	State an overview	DM	Lab manual	CO5
52		civil society	DM	Lab manual	CO5
53		Pre-Gramscian Theories	DM	Lab manual	CO5
54		Gramsci's analysis of capitalist society	DM	Lab manual	CO5
55		Critical analysis of Gramsci	LM/DM	Text books, Reference books, PPTs	CO5
56		Gramsci's concept of civil society	LM/DM	Text books, Reference books, PPTs	CO5
57		Tocqueville: school of democracy	LM/DM	Text books, Reference books, PPTs	CO5
58		Globalisation and civil society	LM/DM	Text books, Reference books, PPTs	CO5
59		Gramsci prison notebook	LM/DM	Text books, Reference books, PPTs	CO5
60		Gramscian Ideology	LM/DM	Text books, Reference	Co5

				books, PPTs	
61		<b>REMEDIAL CLASS</b>			
62		Civil society			
63		Tocqueville: school of democracy	LM/DM		
64		Civil society of Gramsci			
		<b>DOUBT CLEARING CLASS</b>			

65		Criticism of civil society	LM/DM		
		<b>Question Answer Discussion</b>			
66		Origin of state			
67		Criticism of state			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE	
Course Name	HC-103 INTERNATIONAL RELATIONS- MAJOR CONCEPTS AND THEORIES	
Semester	I	
No of Weeks	11	
No of Periods/week	5	
Teacher's Name	Sri Krushna Chandra Swain	

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Corresponding COs
1	I	Theories and Approaches to the study of International Relation	LM/DM	CO1
2		Concept of Idealism	LM/DM	CO1
3		Nature of Idealism	LM/DM	CO1
4		Criticism of Idealism	LM/DM	CO1
5		Concept of Realism	LM/DM	CO1
6		Nature of Realism , Morgenthau's concept of Realism	LM/DM	CO1
7		Concept of Neo-Realism	LM/DM	CO1
8		Decision- Making theory	LM/DM	CO1
9		Game theory	LM/DM	CO1
10		Criticism of Game theory		CO1

REMEDIAL CLASS				
11	Zero-sum Game			
12	Criticism of Decision- Making Theory	LM/DM		

		<b>DOUBT CLEARING CLASS</b>			
13		Bargaining theory	LM/DM		
		<b>Question Answer Discussion</b>			
14		Relationship between Idealism and Realism			
14	II	Concept of Power	LM/DM	Text books, Reference books, PPTs	CO2
15		National Power	LM/DM	Text books, Reference books, PPTs	CO2
16		Kinds of Power	LM/DM	Text books, Reference books, PPTs	CO2
17		Elements of Power	LM/DM	Text books, Reference books, PPTs	CO2
18		Base , Measurement and Limitation	LM/DM	Text books, Reference books, PPTs	CO2
19		Methods of Exercising Power	LM/DM	Text books, Reference books, PPTs	CO2
20		Dimensions of Power	LM/DM	Text books, Reference books, PPTs	
21		Changing Status-quo	LM/DM	Text books, Reference books, PPTs	
22		National interest	LM/DM	Text books, Reference books, PPTs	
23		Serving National interest	LM/DM	Text books, Reference	
24		Relevance and Ideology			
		<b>REMEDIAL CLASS</b>			
25		Role and Use of Power	LM/DM	Text books, Reference books, PPTs	CO2
26		Use in Diplomacy	LM/DM	Text books, Reference books, PPTs	CO2

<b>DOUBT CLEARING CLASS</b>					
27		Concept of National Interest	LM/DM		
			<b>Question Answer Discussion</b>		
28		Elements of Power			
29	III	Theories of Deterrence	LM/DM	Text books, Reference books, PPTs	CO2
30		Exponent and Assumptions	LM/DM	Text books, Reference books, PPTs	CO2
31		Features and Elements of Deterrence	LM/DM	Text books, Reference books, PPTs	CO2
32		Evaluation and Phases of Deterrence	LM/DM	Text books, Reference books, PPTs	CO2
33		Causes of Deterrence	LM/DM	Text books, Reference books, PPTs	CO2
34		Impact of Deterrence	LM/DM	Text books, Reference books, PPTs	CO2
35		Rethnking Deterrence after Cold War	LM/DM	Text books, Reference books, PPTs	CO2
36		Arms control	LM/DM	Text books, Reference books, PPTs	CO2
37		Nuclear Proliferation and Disarmament	LM/DM	Text books, Reference books, PPTs	CO2
38		Strategic Stability	LM/DM	Text books, Reference	CO2
<b>REMEDIAL CLASS</b>					
			LM/DM	Text books, Reference books, PPTs	CO2
39		Deterrence Theory			
<b>DOUBT CLEARING CLASS</b>					
40		Steps taken towards Arms control	LM/DM		
			<b>Question Answer Discussion</b>		



41		Elements of Power	LM/DM	Text books, Reference books, PPTs	CO2
42	IV	System of International Relation Theory	LM/DM	Text books, Reference books, PPTs	CO2
43		Features of International System Theory	LM/DM	Text books, Reference books, PPTs	CO2
44		Components of International System Theory	LM/DM	Text books, Reference books, PPTs	CO2
45		Role of International System Theory	LM/DM	Text books, Reference books, PPTs	CO2
46		Structure of International Relation	LM/DM	Text books, Reference books, PPTs	CO2
47		Different types of structure	LM/DM	Text books, Reference books, PPTs	CO2
48		Models of Political Structure	LM/DM	Text books, Reference books, PPTs	
49		agent	LM/DM	Text books, Reference books, PPTs	
50		Agency and International Relation	LM/DM	Text books, Reference books, PPTs	
51		The agent-structure problems	LM/DM	Text books, Reference	
<b>REMEDIAL CLASS</b>					
			LM/DM	Text books, Reference books, PPTs	CO2
52		Structure of International Relation			
<b>DOUBT CLEARING CLASS</b>					
53		Agents of IR Theories	LM/DM		
<b>Question Answer Discussion</b>					
54		Features of IR Theories			
55	V	War and peace	LM/DM	Text books, Reference	CO2

				books, PPTs	
56		Nature of War	LM/DM	Text books, Reference books, PPTs	CO2
57		Types of War	LM/DM	Text books, Reference books, PPTs	CO2
58		Why do War Occurs	LM/DM	Text books, Reference books, PPTs	CO2
59		Changing face of War	LM/DM	Text books, Reference books, PPTs	CO2
60		Features of New Wars	LM/DM	Text books, Reference books, PPTs	CO2
61		Justifying war	LM/DM	Text books, Reference books, PPTs	CO2
62		Conflict Resolution	LM/DM	Text books, Reference books, PPTs	CO2
63		Conflict Transformation	LM/DM	Text books, Reference books, PPTs	CO2
64		Types of Conflicts	LM/DM	Text books, Reference	CO2
65		Features of conflict Transformation	LM/DM	Text books, Reference	CO2
<b>REMEDIAL CLASS</b>					
66		Functions of Conflicts	LM/DM	Text books, Reference books, PPTs	CO2
<b>DOUBT CLEARING CLASS</b>					
67		Postmodern Warfare	LM/DM		
<b>Question Answer Discussion</b>					
68		Why do War Occurs			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE	
Course Name	HC-101 comparative politics (concepts and models)	
Semester	I	
No of Weeks	11	
No of Periods/week	5	
Teacher's Name	Dr. Gayatri Kar	

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Concepts of comparative politics	LM/DM	Text books, Reference books, PPTs	CO1
2		Scope of comparative politics	LM/DM	Text books, Reference books, PPTs	CO1
3		Nature of comparative politics	LM/DM	Text books, Reference books, PPTs	CO1
4		Approaches of comparative politics	LM/DM	Text books, Reference books, PPTs	CO1
5		Behaviouralism	LM/DM	Text books, Reference books, PPTs	CO1
6		Post-Behaviouralism	LM/DM	Text books, Reference books, PPTs	CO1
7		System approach	LM/DM	Text books, Reference books, PPTs	CO1
8		Institutional approach	LM/DM	Text books, Reference books, PPTs	CO1

9		Models of comparative politics	LM/DM	Text books, Reference books, PPTs	CO1
10		Different types of comparative method	LM/DM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
11		Concepts and clarity of comparative politics	LM/DM	Text books, Reference books, PPTs	CO1
12		Significance of comparative politics	LM/DM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
13		Significance of use of comparative method	LM/DM	Text books, Reference books, PPTs	CO1
14	II	David Easton's system approach	LM/DM	Text books, Reference books, PPTs	CO2
15		Critiques of system approach	LM/DM	Text books, Reference books, PPTs	CO2
16		Gabriel almonds structural functional approach	LM/DM	Text books, Reference books, PPTs	CO2
17		Social structure and social function	LM/DM	Text books, Reference books, PPTs	CO2
18		Theories of structure and agency	LM/DM	Text books, Reference books, PPTs	CO2
19		Gidden's theory on structural functional approach	LM/DM	Text books, Reference books, PPTs	CO2
20		Criticism of structural functional approach	LM/DM	Text books, Reference books, PPTs	CO2
21		Marxist approach	LM/DM	Text books, Reference books, PPTs	CO2
22		Karl Marx's perspective	LM/DM	Text books, Reference books, PPTs	CO2
23		Criticism of Marxist approach	LM/DM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
24		Approaches and theories of comparative politics	LM/DM	Text books, Reference	CO2

				books, PPTs	
25		Key works and authors of approach	LM/DM	Text books, Reference books, PPTs	CO2
26		Significance of approaches	LM/DM	Text books, Reference books, PPTs	CO2
<b>DOUBT CLEARING CLASS</b>					
27		Structure and agency of comparative politics	LM/DM		
<b>Question Answer Discussion</b>					
28		What is the need of approaches			
29	III	Meaning of constitution	LM/DM	Text books, Reference books, PPTs	CO2
30		Functions of constitution	LM/DM	Text books, Reference books, PPTs	CO2
31		Types of constitution	LM/DM	Text books, Reference books, PPTs	CO2
32		Criticism of different types of constitution	LM/DM	Text books, Reference books, PPTs	CO2
33		Meaning of constitutionalism	LM/DM	Text books, Reference books, PPTs	CO2
34		Features of constitutionalism	LM/DM	Text books, Reference books, PPTs	CO2
35		Constitutionalism in communist system	LM/DM	Text books, Reference books, PPTs	CO2
36		Problems of constitutionalism	LM/DM	Text books, Reference books, PPTs	CO2
37		Need of constitution	LM/DM	Text books, Reference books, PPTs	CO2
38		Functions of constitutionalism	LM/DM	Text books, Reference	CO2
<b>REMEDIAL CLASS</b>					

			LM/DM	Text books, Reference books, PPTs	CO2
39		Constitution and constitutionalism	LM/DM	Text books, Reference books, PPTs	CO2
<b>DOUBT CLEARING CLASS</b>					
40		Why there is a constitution		LM/DM	
		Types of constitution	<b>Question Answer Discussion</b>		

41	IV	Meaning of state in comparative perspective	LM/DM	Text books, Reference books, PPTs	CO4
42		Capitalist	LM/DM	Text books, Reference books, PPTs	CO4
43		Institutions of capitalism	LM/DM	Text books, Reference books, PPTs	CO4
44		Origin and development of capitalism	LM/DM	Text books, Reference books, PPTs	CO4
45		Changing nature of capitalism	LM/DM	Text books, Reference books, PPTs	CO4
46		Types of capitalism	LM/DM	Text books, Reference books, PPTs	CO4
47		Strength and weakness of capitalism	LM/DM	Text books, PPTs	CO4
48		Meaning of socialism	LM/DM	Text books, PPTs	CO4
49		Common tenets of socialist	LM/DM	Lab manual	CO5
50		Origin and growth of socialism	DM	Lab manual	CO5
		Post- colonial societies	DM	Lab manual	CO5
			DM	Lab manual	CO5
51	v	Meaning of political elite	DM	Lab manual	CO5
52		Elite theories	DM	Lab manual	CO5
53		History of elite theory	DM	Lab manual	CO5
54		Italian school of elitism	DM	Lab manual	CO5

55		Paretos elite theory	LM/DM	Text books, Reference books, PPTs	CO5
56		Mosca s elite theory	LM/DM	Text books, Reference books, PPTs	CO5
57		Contemporary elite theorist	LM/DM	Text books, Reference books, PPTs	CO5
58		Elite theory of democracy	LM/DM	Text books, Reference books, PPTs	CO5
59		Perspective of elite theory	LM/DM	Text books, Reference books, PPTs	CO5

61		<b>REMEDIAL CLASS</b>			
62		Critism of elite theory		LM\DM	
63		Meaning of elite theory		LM\DM	
64			LM\DM		
		<b>DOUBT CLEARING CLASS</b>			
65		Eliite theory of democracy			
		<b>Question Answer Discussion</b>			
66		Impact of elite s on society			
67					

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE	
Course Name	HC-201 comparative political process	
Semester	I	
No of Weeks	11	
No of Periods/week	5	
Teacher's Name	Dr. Gayatri Kar	

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Concepts of political culture	LM/DM	Text books, Reference books, PPTs	CO1
2		Classification of Political culture	LM/DM	Text books, Reference books, PPTs	CO1
3		Finer's classification	LM/DM	Text books, Reference books, PPTs	CO1
4		Critical Appraisal of Political culture	LM/DM	Text books, Reference books, PPTs	CO1



5		What is socialisation in comparative politics	LM/DM	Text books, Reference books, PPTs	CO1
6		Different types of socialisations	LM/DM	Text books, Reference books, PPTs	CO1
7		Agents of political socialisation	LM/DM	Text books, Reference books, PPTs	CO1
8		Stages of political socialisation	LM/DM	Text books, Reference books, PPTs	CO1
9		Political communication	LM/DM	Text books, Reference books, PPTs	CO1
10		Structure of political communication	LM/DM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
11		Criticism of political communication	LM/DM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
12		Almond and verba's classification			LM/D
<b>Question Answer Discussion</b>					
13		Different types of political socialisation			

14	II	What is political revolution	LM/DM	Text books, Reference books, PPTs	CO2
15		Types of revolution	LM/DM	Text books, Reference books, PPTs	CO2
16		Theories of revolution	LM/DM	Text books, Reference books, PPTs	CO2
17		Causes of political revolution	LM/DM	Text books, Reference books, PPTs	CO2
18		Social Movement	LM/DM	Text books, Reference books, PPTs	CO2
19		Types of social movement	LM/DM	Text books, Reference books, PPTs	CO2
20		Causes of social movements	LM/DM	Text books, Reference books, PPTs	CO2
21		Achievements through social movement	LM/DM	Text books, Reference books, PPTs	CO2
22		New social movement	LM/DM	Text books, Reference books, PPTs	CO2
23		Types of new social movement	LM/DM	Text books, Reference	CO2
		<b>REMEDIAL CLASS</b>			
24		Theories of Revolution	LM/DM	Text books, Reference	CO2

DOUBT CLEARING CLASS				
25		New social movement		LM/DM
		Types of constitution <b>Question Answer Discussion</b>		
26		Types of revolution		

27	III	Concept of Modernization	LM/DM	Text books, Reference books, PPTs	CO3
28		Nature of Modernization	LM/DM	Text books, Reference books, PPTs	CO3
29		Stages of Modernization	LM/DM	Text books, Reference books, PPTs	CO3
30		Models of Modernisation	LM/DM	Text books, Reference books, PPTs	CO3
31		Classifications of Modernization	LM/DM	Text books, Reference books, PPTs	CO3
32		Political development	LM/DM	Text books, Reference books, PPTs	CO3
33		Steps of development	LM/DM	Text books, Reference books, PPTs	CO3
34		Theory of Underdevelopment	LM/DM	Text books, Reference	CO3
35		Concept of dependency theory	LM/DM	Text books, Reference	CO3

36		Criticism	LM/DM	Text books, Reference	
		<b>REMEDIAL CLASS</b>			
37		Samir amins theory	LM/DM	Text books, Reference books, PPTs	CO3
		<b>DOUBT CLEARING CLASS</b>			
38		Approaches to dependency	LM/DM		CO3
		<b>Question Answer Discussion</b>			
39		Modernisation and political development			
40	IV	Introduction of Political party	LM/DM	Text books, Reference books, PPTs	CO4
41		Natures of party system	LM/DM	Text books, Reference books, PPTs	CO4
42		Types of Political Party	LM/DM	Text books, Reference books, PPTs	CO4
43		Functions of Political party	LM/DM	Text books, Reference books, PPTs	CO4
44		Theories of Political party	LM/DM	Text books, Reference books, PPTs	CO4
45		Concept of Pressure Groups	LM/DM	Text books, Reference	CO4
46		Types of pressure groups	LM/DM	Text books, Reference books, PPTs	CO4

47		Role of pressure group	LM/DM	Text books, Reference books, PPTs	CO4
48		Democratisation in post authoritarian countries	LM/DM	Text books, Reference books, PPTs	CO4
49		Democratisation in post-communist country	LM/DM	Text books, Reference	CO4
<b>REMEDIAL CLASS</b>					
50		Comparison between western and non-western political party	LM/DM	Text books, Reference books, PPTs	
<b>DOUBT CLEARING CLASS</b>					
51		Duverger's model of political party			
<b>Question Answer Discussion</b>					
52		Types of political party			
53	V	Role of Public Policy	LM/DM	Text books, Reference books, PPTs	CO5
54		Nature of public policy	LM/DM	Text books, Reference books, PPTs	CO5
55		Stages of public policy	LM/DM	Text books, Reference books, PPTs	CO5
56		Process of public policies	LM/DM	Text books, Reference	CO5
57		Role of Legislature	LM/DM	Text books, Reference	CO5

				books, PPTs	
58		Role of Executive	LM/DM	Text books, Reference	CO5
59		Role of judiciary	LM/DM	Text books, Reference books, PPTs	CO5
60		Introduction of civil society	LM/DM	Text books, Reference books, PPTs	CO5
61		Role of civil society	LM/DM	Text books, Reference books, PPTs	CO5
62		Criticism of civil society	LM/DM	Text books, Reference	CO5
<b>REMEDIAL CLASS</b>					
63		Relationship among the institution	LM/DM	Text books, Reference books, PPTs	CO5
<b>DOUBT CLEARING CLASS</b>					
64		Stages of Public policy	LM/DM		
<b>Question Answer Discussion</b>					
65		Enactment of policies			
66		Legislature and Executive			
67		Executive and Judiciary			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE	
Course Name	HC-202 contemporary debates in political theory	
Semester	I	
No of Weeks	11	
No of Periods/week	5	
Teacher's Name	Moushumi Pattanaik	

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	What is Marxism	LM/DM	Text books, Reference books, PPTs	CO1
2		Main tenets of Marxism	LM/DM	Text books, Reference books, PPTs	CO1
3		Doctrine of class conflict	LM/DM	Text books, Reference books, PPTs	CO1
4		Theory of surplus value	LM/DM	Text books, Reference books, PPTs	CO1

5		Criticism of Marxism	LM/DM	Text books, Reference books, PPTs	CO1
6		Neo Marxism	LM/DM	Text books, Reference books, PPTs	CO1
7		History of neo-marxism	LM/DM	Text books, Reference books, PPTs	CO1
8		Thinkers of neo Marxism	LM/DM	Text books, Reference books, PPTs	CO1
9		Difference between Marxism and neo-marxism	LM/DM	Text books, Reference books, PPTs	CO1
10		Conclusion	LM/DM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
11		Criticism of Marxism and neo-marxism	LM/DM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
12		Main tenets of marxism		LM/DM	
<b>Question Answer Discussion</b>					
13		Thinkers of neo_marxism			



14	II	Feminism	LM/DM	Text books, Reference books, PPTs	CO2
15		Sex and gender	LM/DM	Text books, Reference books, PPTs	CO2
16		waves of feminism	LM/DM	Text books, Reference books, PPTs	CO2
17		Liberal feminism	LM/DM	Text books, Reference books, PPTs	CO2
18		Radical feminism	LM/DM	Text books, Reference books, PPTs	CO2
19		Socialist feminism	LM/DM	Text books, Reference books, PPTs	CO2
20		Marxist feminism	LM/DM	Text books, Reference books, PPTs	CO2
21		Environmentalism	LM/DM	Text books, Reference books, PPTs	CO2
22		Conclusion	LM/DM	Text books, Reference books, PPTs	CO2
23		Broad Streams of feminism	LM/DM	Text books, Reference	CO2
		<b>REMEDIAL CLASS</b>			
24		Waves of feminism	LM/DM	Text books, Reference	CO2

DOUBT CLEARING CLASS				
25		Thinkers of feminism	LM/DM	C
		Types of constitution <b>Question Answer Discussion</b>		
26				

27	III	Concept of ideology	LM/DM	Text books, Reference books, PPTs	CO2
28		Ideology as the science of ideas	LM/DM	Text books, Reference books, PPTs	CO2
29		Ideology meaning	LM/DM	Text books, Reference books, PPTs	CO2
30		Nature of ideology	LM/DM	Text books, Reference books, PPTs	CO2
31		Views of Lucas	LM/DM	Text books, Reference books, PPTs	CO2
32		Ideology, politics and political theory	LM/DM	Text books, Reference books, PPTs	CO2
33		Views of Marx	LM/DM	Text books, Reference books, PPTs	
34		Views of Mannheim	LM/DM	Text books, Reference	
35		Role of ideology	LM/DM	Text books, Reference	

36		End of ideology	LM/DM	Text books, Reference	
		<b>REMEDIAL CLASS</b>			
37		Concept of ideology	LM/DM	Text books, Reference books, PPTs	CO2
		<b>DOUBT CLEARING CLASS</b>			
38		End of ideology debate		LM/DM	
		<b>Question Answer Discussion</b>			
39		What is ideology			
40	IV	Theories of change	LM/DM	Text books, Reference books, PPTs	CO2
41		Lenin	LM/DM	Text books, Reference books, PPTs	CO2
42		Early life of Lenin	LM/DM	Text books, Reference books, PPTs	CO2
43		Lenin's government	LM/DM	Text books, Reference books, PPTs	CO2

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE	
Course Name	HC-102 Administrative Theory- Principles and Approaches	
Semester	I	
No of Weeks	11	
No of Periods/week	5	
Teacher's Name	Mr. Paban Kumar Moharana	

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Public administration: Introduction	LM/DM	Text books, Reference books, PPTs	CO1
2		Nature of public administration	LM/DM	Text books, Reference books, PPTs	CO1
3		Scope of public administration	LM/DM	Text books, Reference books, PPTs	CO1
4		Evolution of public administration	LM/DM	Text books, Reference books, PPTs	CO1

5		Evolution of public administration	LM/DM	Text books, Reference	CO1
6		Public administration and Private administration	LM/DM	Text books, Reference books, PPTs	CO1
7		Difference between public administration and private administration	LM/DM	Text books, Reference books, PPTs	CO1
8		Role of public administration in developing society	LM/DM	Text books, Reference books, PPTs	CO1
9		Role of public administration in developed society	LM/DM	Text books, Reference books, PPTs	CO1
10		Difference between nature of developing society and developed society in public administration	LM/DM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
11		Evolution and growth of public administration	LM/DM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
12		Similarities between public and private administration	LM/DM	Textbooks, Reference books, PPTs	
<b>Question Answer Discussion</b>					
13		Nature and scope of public administration			

14	II	Theories of organization: Traditional theory	LM/DM	Text books, Reference books, PPTs	CO2
15		Organisation and Hierarchy	LM/DM	Textbooks,Reference books, PPTs	CO2
16		Unity of command	LM/DM	Textbooks,Reference books, PPTs	CO2
17		Span of control	LM/DM	Textbooks,Reference books, PPTs	CO2
18		Scientific management theory	LM/DM	Textbooks,Reference books, PPTs	CO2
19		Principles of scientific management theory	LM/DM	Text books, Reference books, PPTs	CO2
20		Techniques		Textbooks,Reference books, PPTs	CO2
21		Criticism and opposition	LM/DM	Textbooks,Reference books, PPTs	CO2
22		Human Relation theory	LM/DM	Textbooks,Reference books, PPTs	CO2
23		Criticism	LM/DM	Textbooks,Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
24		Functional Foremanship	LM/DM	Text books, Reference books, PPTs	CO2
<b>DOUBT CLEARING CLASS</b>					
25		Bank wiring Experiment		LM/DM Textbooks,Reference books, PPTs	

<b>Question Answer Discussion</b>					
26		Difference between Mayo and Taylor			
27	III	Administrative management	LM/DM	Text books, Reference books, PPTs	CO3
28		Theory of Leadership	LM/DM	Textbooks,Reference books, PPTs	CO3
29		Types of leadership	LM/DM	Textbooks,Reference books, PPTs	CO3
30		Functions of Leadership	LM/DM	Textbooks,Reference books, PPTs	CO3
31		Decision making theory	LM/DM	Textbooks,Reference books, PPTs	CO3
32		Decision making theory	LM/DM	Text books, Reference books, PPTs	CO3
33		Theory of Motivation	LM/DM	Textbooks,Reference books, PPTs	
34		Maslow and Herzberg	LM/DM	Textbooks,Reference books, PPTs	
35		Theory of Communications	LM/DM	Textbooks,Reference books, PPTs	
36		Criticism	LM/DM	Textbooks,Reference books, PPTs	
<b>REMEDIAL CLASS</b>					
37		Maslow's motivation theory	LM/DM	Text books, Reference books, PPTs	CO3

<b>DOUBT CLEARING CLASS</b>					
38		Communication Theory	LM/DM	Textbooks, Reference books, PPTs	
		<b>Question Answer Discussion</b>			
39		Theories of Leadership			
40	IV	Concepts of Public Administration	LM/DM	Text books, Reference books, PPTs	CO4
41		Comparative Public Administration	LM/DM	Text books, Reference books, PPTs	CO4
42		Nature	LM/DM	Text books, Reference books, PPTs	CO4
43		Issues	LM/DM	Text books, Reference books, PPTs	CO2
44		Characteristics	LM/DM	Text books, Reference books, PPTs	CO2
45		Dimensions of New Public Administration	LM/DM	Textbooks, Reference books, PPTs	
46		Criticism	LM/DM	Textbooks, Reference books, PPTs	
47		Dimensions of New Public Management	LM/DM	Textbooks, Reference books, PPTs	
48		Criticism	LM/DM	Textbooks, Reference books, PPTs	
49		New public management	LM/DM	Text books, Reference	CO2



				books, PPTs	
		<b>REMEDIAL CLASS</b>			
50		Issues of comparative public administration	LM/DM	Text books, Reference books, PPTs	CO1
		<b>DOUBT CLEARING CLASS</b>			
51		New Public Management	LM/DM	Textbooks, Reference	
		<b>Question Answer Discussion</b>			
52		Minnow brook conference			
53	V	Development administration	LM/DM	Text books, Reference books, PPTs	CO5
		<b>Question Answer Discussion</b>			
54		Emergence of Development Administration	LM/DM	Text books, Reference books, PPTs	CO5
55		Nature	LM/DM	Text books, Reference books, PPTs	CO5
56		Issues	LM/DM	Text books, Reference books, PPTs	CO5

57		Characteristics	LM/DM	Text books, Reference	CO5
58		Contribution of Weidner	LM/DM	Text books, Reference	CO5
59		Contribution of Riggs	LM/DM	Text books, Reference	CO5
60		Riggs's Model	LM/DM	Text books, Reference	CO5
61		Ecological approaches to Riggs	LM/DM	Text books, Reference	CO5
62		Fused society	LM/DM	Text books, Reference books, PPTs	CO5
63		Prismatic society	LM/DM	Text books, Reference books, PPTs	CO5
64		Diffractioned society	LM/DM	Text books, Reference books, PPTs	CO5
65		Criticism of Riggs	LM/DM	Text books, Reference	CO5
		<b>REMEDIAL CLASS</b>			
66		Bazar-canteen model	LM/DM	Text books, Reference books, PPTs	CO5
		<b>DOUBT CLEARING CLASS</b>			
67		Lenin's political ideology	LM/DM	Text books, Reference books, PPTs	CO5
68		Mao	LM/DM	Text books, Reference	CO5
69		Early revolutionary activity of Mao	LM/DM	Text books, Reference books, PPTs	

47		Leadership of Mao china	LM/DM	Text books, Reference books, PPTs	
48		Gandhi	LM/DM	Text books, Reference books, PPTs	
49		Sarvodaya of Gandhi	LM/DM	Text books, Reference	
<b>REMEDIAL CLASS</b>					
50		Gandhism and Maoism	LM/DM	Text books, Reference books, PPTs	CO5
<b>DOUBT CLEARING CLASS</b>					
51		Ideology of Gandhi Mao and Lenin		LM/DM	
<b>Question Answer Discussion</b>					

52					
53	V	Communitarianism	LM/DM	Text books, Reference books, PPTs	CO5
54		Origin of communitarianism	LM/DM	Text books, Reference books, PPTs	CO5
55		List of communitarian political parties	LM/DM	Text books, Reference books, PPTs	CO5
56		List of communitarian philosophers	LM/DM	Text books, Reference	CO5
57		multiculturalism	LM/DM	Text books, Reference books, PPTs	CO5
58		Sociological aspects of multiculturalism	LM/DM	Text books, Reference	CO5
59		History of multiculturalism	LM/DM	Text books, Reference books, PPTs	CO5
60		Impact of multiculturalism	LM/DM	Text books, Reference books, PPTs	CO5
61		Theories of multiculturalism	LM/DM	Text books, Reference books, PPTs	CO5
62		Cultural relativism	LM/DM	Text books, Reference	CO5
		<b>REMEDIAL CLASS</b>			
63		Communitarian perspective	LM/DM	Text books, Reference books, PPTs	CO2
		<b>DOUBT CLEARING CLASS</b>			

64		Theories of multiculturalism		LM/DM	
			<b>Question Answer Discussion</b>		
65		Cultural relativism			
66		Impact of Multiculturalism			
67		communitarianism			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE	
Course Name	HC-203 Indian Government and politics	
Semester	II	
No of Weeks	11	
No of Periods/week	5	
Teacher's Name	Mr. Paban Kuamr Moharana	

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67

Period	Unit	Topics	Method of Teaching	Source of Teaching Materials	Corresponding
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			(LM/ICT/IM/DM)		COs
1	1	Making of Indian Constitution	LM/DM	Text books, Reference books, PPTs	CO1
2		Meaning of the constituent assembly	LM/DM	Text books, Reference books, PPTs	CO1
3		Evolution of the concept of constituent assembly in India	LM/DM	Text books, Reference books, PPTs	CO1
4		Cabinet mission plan and formation of constituent assembly	LM/DM	Text books, Reference books, PPTs	CO1
5		Working of the constituent assembly	LM/DM	Text books, Reference	CO1
6		Committies of the constituent assembly	LM/DM	Text books, Reference books, PPTs	CO1
7		Composition of the constituent assembly	LM/DM	Text books, Reference books, PPTs	CO1
8		Drafting Committee	LM/DM	Text books, Reference books, PPTs	CO1
9		Framers of the constitution	LM/DM	Text books, Reference books, PPTs	CO1
10		Salient features of the working process of the constituent assembly: Graniville Austin's view	LM/DM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					

11		Historical background of the Indian constitution	LM/DM	Text books, Reference books, PPTs	CO1
		<b>DOUBT CLEARING CLASS</b>			
12		Composition of the constituent assembly	LM/DM	Textbooks, Reference books, PPTs	
		<b>Question Answer Discussion</b>			
13		Committees of the Indian constitution			
14	II	History of the preamble	LM/DM	Text books, Reference books, PPTs	CO2
15		Amendment of the preamble	LM/DM	Textbooks, Reference books, PPTs	CO2
16		Fundamental rights	LM/DM	Textbooks, Reference books, PPTs	CO2
17		Salient feature of fundamental rights	LM/DM	Textbooks, Reference books, PPTs	CO2
18		Directive principles: Meaning and Nature	LM/DM	Textbooks, Reference books, PPTs	CO2
19			LM/DM	Text books, Reference books, PPTs	CO2
20		Criticism of directive principles		Textbooks, Reference books, PPTs	CO2
21		Utility of directive principles	LM/DM	Textbooks, Reference books, PPTs	CO2
22		Secularism in India	LM/DM	Textbooks, Reference	CO2

				books, PPTs	
23		Secularism: its basic outlines in the constitution	LM/DM	Textbooks, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
11		Classification of directive principles	LM/DM	Text books, Reference books, PPTs	CO2
<b>DOUBT CLEARING CLASS</b>					
12		Salient feature of fundamental rights		Textbooks, Reference books, PPTs	
<b>Question Answer Discussion</b>					
13		Fundamental rights			
24	III	Amendment process of the Indian constitution	LM/DM	Text books, Reference books, PPTs	CO3
25		Salient feature of the amendment process	LM/DM	Textbooks, Reference books, PPTs	CO3
26		The amending power and the doctrine of basic structure	LM/DM	Textbooks, Reference books, PPTs	CO3
27		Procedure of amendment	LM/DM	Textbooks, Reference books, PPTs	CO3
28		Major constitutional amendment: A brief survey	LM/DM	Textbooks, Reference books, PPTs	CO3
29		Types of amendment	LM/DM	Text books, Reference books, PPTs	CO3
30		List of amendment	LM/DM	Textbooks, Reference books, PPTs	CO3



31		Amendment process and its limitations	LM/DM	Textbooks, Reference books, PPTs	CO3
32		Basic principles of the constitution	LM/DM	Textbooks, Reference books, PPTs	CO3
33		The amending power and the fundamental rights	LM/DM	Textbooks, Reference books, PPTs	CO3
<b>REMEDIAL CLASS</b>					
34		Procedure of amendment	LM/DM	Text books, Reference books, PPTs	CO3
<b>DOUBT CLEARING CLASS</b>					
35		The amending power and the doctrine of basic structure	LM/DM	Textbooks, Reference books, PPTs	
<b>Question Answer Discussion</b>					
36		Types of amendment			
37	IV	Nature of Indian federal system	LM/DM	Text books, Reference books, PPTs	CO4
38		India as a federation	LM/DM	Text books, Reference books, PPTs	CO4
39		Federal features of the Indian constitution : the constitution is federal in form	LM/DM	Text books, Reference books, PPTs	CO4
40		Unitary feature of the Indian constitution	LM/DM	Text books, Reference	CO4

				books, PPTs	
41		Critical analysis of India's centralized federation	LM/DM	Text books, Reference books, PPTs	CO4
42		Legislative relations between the union and states	LM/DM	Textbooks, Reference books, PPTs	CO4
43		Centre state administrative relations	LM/DM	Textbooks, Reference books, PPTs	CO4
44		Centre state financial relations	LM/DM	Textbooks, Reference books, PPTs	CO4
45		Demand for state autonomy	LM/DM	Textbooks, Reference books, PPTs	CO4
46		Separatist movement	LM/DM	Text books, Reference books, PPTs	CO4
		<b>REMEDIAL CLASS</b>			
47		Centre state financial relations	LM/DM	Text books, Reference books, PPTs	CO4
		<b>DOUBT CLEARING CLASS</b>			
48		Legislative relations between the union and states	LM/DM	Textbooks, Reference	

Question Answer Discussion					
49		Nature of Indian federal system			
50	V	president	LM/DM	Text books, Reference books, PPTs	CO5
51		Election of the president	LM/DM	Text books, Reference books, PPTs	CO5
52		Methods of election	LM/DM	Text books, Reference books, PPTs	CO5
53		Powers of the president	LM/DM	Text books, Reference books, PPTs	CO5
54		Position of the president	LM/DM	Text books, Reference	CO5
55		Rashtrapati Bhawan	LM/DM	Text books, Reference	CO5
56		Prime-minister	LM/DM	Text books, Reference	CO5
57		Power and function of the prime-minister	LM/DM	Text books, Reference	CO5
58		Prime ministerial systems in india	LM/DM	Text books, Reference	CO5
59		The changing role of the PMO	LM/DM	Text books, Reference books, PPTs	CO5
60		Union Territories	LM/DM	Text books, Reference books, PPTs	CO5
61		History of union territories	LM/DM	Text books, Reference books, PPTs	CO5

62		Constitutional status of union territories	LM/DM	Text books, Reference	CO5
<b>REMEDIAL CLASS</b>					
63		Prime ministerial systems in india	LM/DM	Text books, Reference books, PPTs	CO5
<b>DOUBT CLEARING CLASS</b>					

64		Prime-minister	LM/DM		
<b>Question Answer Discussion</b>					
65		Position of the president			
66		Union Territories			
67		Centre state financial relations			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

Course Name	HC-204 Indian political tradition	
Semester	I	
No of Weeks	11	
No of Periods/week	5	
Teacher's Name	Dr. Gayatri Kar	

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Manu	LM/DM	Text books, Reference books, PPTs	CO1
2		The manusmriti and social laws	LM/DM	Text books, Reference books, PPTs	CO1
3		The king and his duties	LM/DM	Text books, Reference books, PPTs	CO1
4		The state and government	LM/DM	Text books, Reference books, PPTs	CO1

5		Theory of danda	LM/DM	Text books, Reference	CO1
6		Laws and justice	LM/DM	Text books, Reference books, PPTs	CO1
7		Kautilya:theory of state	LM/DM	Text books, Reference books, PPTs	CO1
8		Foreign policy	LM/DM	Text books, Reference books, PPTs	CO1
9		Arthasastra	LM/DM	Text books, Reference books, PPTs	CO1
10		Role of king	LM/DM	Text books, Reference books, PPTs	CO1

<b>REMEDIAL CLASS</b>					
11		Manu	LM/DM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
12		Kautilya's forigen policy	LM/DM	Textbooks,Reference books, PPTs	
<b>Question Answer Discussion</b>					
13		Theory of danda			

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
14	II	Abul fazal	LM/DM	Text books, Reference books, PPTs	CO2
15		Works of Abul Fazal	LM/DM	Text books, Reference books, PPTs	CO2
16		Abul fazal's own account	LM/DM	Text books, Reference books, PPTs	CO2
17		Monarchy	LM/DM	Text books, Reference books, PPTs	CO2

18		The sovereign and his powers	LM/DM	Text books, Reference	CO2
19		Kabir	LM/DM	Text books, Reference books, PPTs	CO2
20		Kabir's poetry	LM/DM	Text books, Reference books, PPTs	CO2
21		Syncretism	LM/DM	Text books, Reference books, PPTs	CO2
22		Kabir, Nanak and the gurugranthsahib	LM/DM	Text books, Reference books, PPTs	CO2
23		Criticism	LM/DM	Text books, Reference books, PPTs	CO2
		<b>REMEDIAL CLASS</b>			
24		Abul fazal's own account	LM/DM	Text books, Text	CO1
		<b>DOUBT CLEARING CLASS</b>			
25		<b>DOUBT CLEARING CLASS</b>			
26		Kabir ,Nanak and the Gurugranthsahib		LM/DM Textbooks, Reference books,	
		<b>Question Answer Discussion</b>			
		Syncretism			

27	III	Raja Ram Mohan Roy	LM/DM	Text books, Reference books, PPTs	CO3
28		Right	LM/DM	Textbooks,Reference books, PPTs	CO3
29		Reforms of ram Mohan Roy	LM/DM	Textbooks,Reference books, PPTs	CO3
30		Movements of raja ram Mohan Roy	LM/DM	Textbooks,Reference books, PPTs	CO3
31		Liberalism of Raja Ram Mohan Roy	LM/DM	Textbooks,Reference books, PPTs	CO3
32		Vivekanda	LM/DM	Text books, Reference books, PPTs	CO3
33		Ideal society		Textbooks,Reference books, PPTs	CO3
34		humanism	LM/DM	Text books, Reference books, PPTs	CO3
35		Nationalism	LM/DM	Textbooks,Reference books, PPTs	CO3
36		Teaching and philosophy	LM/DM	Textbooks,Reference books, PPTs	CO3
		<b>REMEDIAL CLASS</b>			
37		Liberalism of Raja Ram Mohan Roy	LM/DM	Text books, Reference books, PPTs	CO3



38		<b>DOUBT CLEARING CLASS</b>			
39		Ideal society	LM/DM	Textbooks,Reference books, PPTs	
		<b>Question Answer Discussion</b>			
		Reforms of ram Mohan Roy			

37	IV	Gandhi: Introduction	LM/DM	Text books, Reference books, PPTs	CO4
38		Satyagraha	LM/DM	Text books, Reference books, PPTs	CO4
39		Sarvodaya	LM/DM	Text books, Reference books, PPTs	CO4
40		Literary works	LM/DM	Text books, Reference books, PPTs	CO4
41		Struggle for Indian independence	LM/DM	Text books, Reference books, PPTs	CO4
42		Contemporary relevance	LM/DM	Textbooks,Reference books, PPTs	CO4
43		Ambedkar: introduction	LM/DM	Textbooks,Reference books, PPTs	CO4
44		Early life	LM/DM	Textbooks,Reference books, PPTs	CO4
45		Opposition to untouchability	LM/DM	Textbooks,Reference books, PPTs	CO4
46		Political career	LM/DM	Text books, Reference books, PPTs	CO4
		<b>REMEDIAL CLASS</b>			
47		Sarvodaya	LM/DM	Text books, Reference books, PPTs	CO4

48		<b>DOUBT CLEARING CLASS</b>		
49	Satyagraha	LM/DM	Textbooks,Reference	books, PPTs
		<b>Question Answer Discussion</b>		
50	Opposition to untouchability			

51	V	Jawaharlal Neheru : Introduction	LM/DM	Text books, Reference books, PPTs	CO5
52		Early life and Political career	LM/DM	Text books, Reference books, PPTs	CO5
53		Nationalist movement	LM/DM	Text books, Reference books, PPTs	CO5
54		Secularism	LM/DM	Text books, Reference books, PPTs	CO5

55		Nehru's socialism	LM/DM	Text books, Reference	CO5
56		Nehru's internationalism	LM/DM	Text books, Reference	CO5
57		J.P Narayan : introduction	LM/DM	Text books, Reference	CO5
58		Total revolution	LM/DM	Text books, Reference	CO5
59		democracy	LM/DM	Text books, Reference books, PPTs	CO5
60		Political career of J.P Narayan	LM/DM	Text books, Reference books, PPTs	CO5
61		Works of J.P Narayan	LM/DM	Text books, Reference books, PPTs	CO5
62			LM/DM	Text books, Reference	CO5
<b>REMEDIAL CLASS</b>					
63		Total revolution	LM/DM	Text books, Reference books, PPTs	CO2
<b>DOUBT CLEARING CLASS</b>					

64		Nationalist movement		LM/DM	
			<b>Question Answer Discussion</b>		
65		Nehru's internationalism			
66		Nehru's socialism			
67		Works of J.P Narayan			

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE	POLITICAL SCIENCE
Course Name	HC- 302 political sociology concepts and issues	
Semester	I	
No of Weeks	11	
No of Periods/week	5	
Teacher's Name	Gayatri kar	

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Seminal ideas of karl marx	LM/DM	Text books, Reference books, PPTs	CO1
2		Class and class struggle	LM/DM	Text books, Reference books, PPTs	CO1
3		Alienation	LM/DM	Text books, Reference books, PPTs	CO1
4		State and revolution	LM/DM	Text books, Reference books, PPTs	CO1

5		Marx's Economic Analysis	LM/DM	Text books, Reference	CO1
6		Marx weber: Bureaucracy	LM/DM	Text books, Reference books, PPTs	CO1
7		Sociology of religion	LM/DM	Text books, Reference books, PPTs	CO1
8		Social stratification	LM/DM	Text books, Reference books, PPTs	CO1
9		Power and authority	LM/DM	Text books, Reference books, PPTs	CO1
10		criticism	LM/DM	Text books, Reference books, PPTs	CO1
		<b>REMEDIAL CLASS</b>			
11		Marx weber: Bureaucracy	LM/DM	Text books, Reference books, PPTs	CO1
		<b>DOUBT CLEARING CLASS</b>			
12		Seminal ideas of karl marx	LM/DM	Textbooks, Reference books, PPTs	
		<b>Question Answer Discussion</b>			
13		Marx's Economic Analysis			

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
14	II	Sociological ideas of Durkheim	LM/DM	Text books, Reference books, PPTs	CO2
15		Social order and social facts	LM/DM	Text books, Reference books, PPTs	CO2
16		Social solidarity	LM/DM	Text books, Reference books, PPTs	CO2
17		Functionalism and methodology	LM/DM	Text books, Reference books, PPTs	CO2
18		Theory of religion	LM/DM	Text books, Reference	CO2
19		Talcott persons : Introduction	LM/DM	Text books, Reference books, PPTs	CO2
20		Social stratification	LM/DM	Text books, Reference books, PPTs	CO2
21		Socialization	LM/DM	Text books, Reference books, PPTs	CO2
22		Functionalism and social change	LM/DM	Text books, Reference books, PPTs	CO2
23		conclusion	LM/DM	Text books, Reference books, PPTs	CO2
		<b>REMEDIAL CLASS</b>			



24		Social stratification	LM/DM	Text books, Text	CO2
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25		<b>DOUBT CLEARING CLASS</b>			
26		Sociological ideas of Durkheim		LM/DM Textbooks, Reference books,	
		<b>Question Answer Discussion</b>			
		Functionalism and social change			
27	III	Elite theory	LM/DM	Text books, Reference books, PPTs	CO3
28		Criticism of Pareto and Mosca	LM/DM	Textbooks, Reference books, PPTs	CO3
29		View of Robert Michels	LM/DM	Textbooks, Reference books, PPTs	CO3
30		Italian school of Elitism	LM/DM	Textbooks, Reference books, PPTs	CO3
31		View of Gaetano Mosca	LM/DM	Textbooks, Reference books, PPTs	CO3
32		Contemporary Elite theorist	LM/DM	Text books, Reference books, PPTs	CO3
33		Elitism vs\ pluralism		Textbooks, Reference books, PPTs	CO3
34		Elite Theorist vs. Marxists	LM/DM	Text books, Reference books, PPTs	CO3

35		Elite and democracy	LM/DM	Textbooks,Reference books, PPTs	CO3
36		Conclusion	LM/DM	Textbooks,Reference books, PPTs	
		<b>REMEDIAL CLASS</b>			
37		Italian school of Elitism	LM/DM	Text books, Reference books, PPTs	CO1
38		<b>DOUBT CLEARING CLASS</b>			
39		Contemporary Elite theorist		LM/DM Textbooks,Reference books, PPTs	
		<b>Question Answer Discussion</b>			
		Elitism vs\ pluralism			

	IV	Political participation: Definition	LM/DM	Text books, Reference books, PPTs	CO4
40		Kinds of political participation	LM/DM	Text books, Reference books, PPTs	CO4
41		Hierarchy	LM/DM	Textbooks,Reference books, PPTs	CO4
42		Motives and factors of political participation	LM/DM	Textbooks,Reference books, PPTs	CO4
43		Political non participation	LM/DM	Text books, Reference books, PPTs	CO4
44		Conclusion	LM/DM	Text books, Reference books, PPTs	CO4
45		Political communication : Definition	LM/DM	Textbooks,Reference books, PPTs	CO4
46		Almonds view	LM/DM	Textbooks,Reference books, PPTs	CO4
47		Deutch's communication	LM/DM	Textbooks,Reference books, PPTs	CO4
48		Political Development	LM/DM	Textbooks,Reference books, PPTs	CO4
49		Political order and political decay model	LM/DM	Text books, Reference books, PPTs	CO4
		<b>REMEDIAL CLASS</b>			
50		Kinds of political participation	LM/DM	Text books, Reference books, PPTs	CO1

		<b>DOUBT CLEARING CLASS</b>			
51		Deutch's communication			
		<b>Question Answer Discussion</b>			
52		Motives and factors of political participation			
	V	Social stability	LM/DM	Text books, Reference books, PPTs	CO5
		Democracy and social stability			
53		Social change	LM/DM	Text books, Reference books, PPTs	CO5
54		Causes of social change	LM/DM	Text books, Reference books, PPTs	CO5
55		Souce of social change	LM/DM	Text books, Reference books, PPTs	CO5

56		Types of social change	LM/DM	Text books, Reference	CO5
57		Theories of social change	LM/DM	Text books, Reference	CO5
58		Factors of social change	LM/DM	Text books, Reference	CO5
59		Social conflict	LM/DM	Text books, Reference	CO5
60		Kinds of conflict	LM/DM	Text books, Reference books, PPTs	CO5
61		Social conflict :Theoretical perspective	LM/DM	Text books, Reference books, PPTs	CO5
62		Theories of social conflict	LM/DM	Text books, Reference books, PPTs	CO5
63		Social conflict in india	LM/DM	Text books, Reference	CO5
<b>REMEDIAL CLASS</b>					
64		Democracy and social stability	LM/DM	Text books, Reference books, PPTs	CO2
<b>DOUBT CLEARING CLASS</b>					

65			LM/DM		
			<b>Question Answer Discussion</b>		
66		Kinds of conflict			
67		Social conflict in india			

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\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK  
TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE	
Course Name	HC- 301 Research methodology and Statistical method	
Semester	I	
No of Weeks	11	
No of Periods/week	5	
Teacher's Name	Moushumi Pattanaik	

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Social and political research – Meaning	LM/DM	Text books, Reference books, PPTs	CO1
2		Objective of social and political research	LM/DM	Text books, Reference books, PPTs	CO1

3		Motivation in research	LM/DM	Text books, Reference books, PPTs	CO1
4		Types of research	LM/DM	Text books, Reference books, PPTs	CO1

5		Research approaches	LM/DM	Text books, Reference books, PPTs	CO1
6		Significance of research	LM/DM	Text books, Reference books, PPTs	CO1
7		Research and scientific method : Characteristics	LM/DM	Text books, Reference books, PPTs	CO1
8		Steps of research	LM/DM	Text books, Reference books, PPTs	CO1
9		Criteria of good research	LM/DM	Text books, Reference books, PPTs	CO1
10		Process and limitation	LM/DM	Text books, Reference books, PPTs	CO1

**REMEDIAL CLASS**

11		Types of research	LM/DM	Text books, Reference books, PPTs	CO1
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**DOUBT CLEARING CLASS**

12			LM/DM		
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		Textbooks, Reference books, PPTs
13		<b>Question Answer Discussion</b>

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
14	II	Research design – Meaning	LM/DM	Text books, Reference books, PPTs	CO2
15		Components of Research design	LM/DM	Text books, Reference books, PPTs	CO2
16		Identifying and Planning Research	LM/DM	Text books, Reference books, PPTs	CO2
17		Features of a good design	LM/DM	Text books, Reference books, PPTs	CO2

18		Different research design	LM/DM	Text books, Reference	CO2
19		Report Writing	LM/DM	Text books, Reference books, PPTs	CO2
20		Types of reports	LM/DM	Text books, Reference books, PPTs	CO2



21		Hypothesis meaning	LM/DM	Text books, Reference books, PPTs	CO2
22		Sources of hypothesis	LM/DM	Text books, Reference books, PPTs	CO2
23		Formulation and function of hypothesis	LM/DM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					

<del>25</del>	III	Research and scientific method : Characteristics	LM/DM	Textbooks, Reference books, PPTs	CO2
26		Types of reports	LM/DM	Textbooks, Reference books, PPTs	CO2
28					
29			LM/DM	Textbooks, Reference books, PPTs	
30			LM/DM	Textbooks, Reference books, PPTs	
31			LM/DM	Textbooks, Reference books, PPTs	
32			LM/DM	Text books, Reference books, PPTs	CO2
33				Textbooks, Reference books, PPTs	
34			LM/DM	Text books, Reference books, PPTs	CO2
35			LM/DM	Textbooks, Reference	

24		Identifying and Planning Research	LM/DM	Text books, Text books, PPTs	CO2
36			LM/DM	Textbooks, Reference books, PPTs	
<b>REMEDIAL CLASS</b>					
37			LM/DM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
38					
39	IV	Data analysis	LM/DM	Text books, Reference books, PPTs	CO2
41		Qualitative content analysis	LM/DM	Text books, Reference books, PPTs	CO2
42		Quantitative content analysis	LM/DM	Textbooks, Reference books, PPTs	CO2
43		Codebooks or Coding scheme	LM/DM	Textbooks, Reference books, PPTs	CO2
40		Computational Tools, Reliability and Validity	LM/DM	Text books, Reference books, PPTs	CO2
41		Report writing	LM/DM	Text books, Reference books, PPTs	CO2
42		Basic Statistical Computational	LM/DM	Textbooks, Reference books, PPTs	CO2
43			LM/DM	Textbooks, Reference books, PPTs	CO2

64			LM/DM		
			<b>Question Answer Discussion</b>		
65		What is central tendency and its types?			
66		Advantages and disadvantages of median			

44			LM/DM	Textbooks, Reference books, PPTs	CO2
45			LM/DM	Textbooks, Reference books, PPTs	
46			LM/DM	Text books, Reference books, PPTs	CO2
			<b>REMEDIAL CLASS</b>		
47			LM/DM	Text books, Reference books, PPTs	CO1

67	Mode formula for Grouped data
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	Content analysis	LM/DM	Textbooks,Reference books, PPTs
	<b>Question Answer Discussion</b>		

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN’S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE	
Course Name	HC- 303 western political thought	
Semester	III	
No of Weeks	11	
No of Periods/week	5	
Teacher’s Name	Moushumi Pattanaik	

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Plato’s Justice	LM/DM	Text books, Reference books, PPTs	CO1
2		Different definitions of Justice	LM/DM	Text books, Reference books, PPTs	CO1
3		Justice in the state and individual	LM/DM	Text books, Reference books, PPTs	CO1
4		Theory of Three classes and three souls	LM/DM	Text books, Reference books, PPTs	CO1

5		Myth of metals and of earth-born	LM/DM	Text books, Reference	CO1
6		Education; elementary education and higher education	LM/DM	Text books, Reference books, PPTs	CO1
7		What is Plato's Ideal State	LM/DM	Text books, Reference books, PPTs	CO1
8		Feasibility of the ideal state	LM/DM	Text books, Reference books, PPTs	CO1
9		What is Plato's second best state?	LM/DM	Text books, Reference books, PPTs	CO1
10		Is plato a forerunner of modern totalitarianism, or the first fascist?	LM/DM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
11		What is Plato's second best state?	LM/DM	Text books, Reference books, PPTs	
<b>DOUBT CLEARING CLASS</b>					
12		What is Plato's Ideal State	LM/DM	Textbooks,Reference books, PPTs	
			<b>Question Answer Discussion</b>		
13		Feasibility of the ideal state	LM/DM	Textbooks,Reference books, PPTs	

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
14	II	Nature of Happiness or Eudamonia	LM/DM	Text books, Reference books, PPTs	CO2
15		Household (Slaves, Women and Property)	LM/DM	Text books, Reference books, PPTs	CO2
16		Distributive justice	LM/DM	Text books, Reference books, PPTs	CO2
17		Rule of Law and Constitution	LM/DM	Text books, Reference books, PPTs	CO2
18		The statesman	LM/DM	Text books, Reference	CO2
19		The republic	LM/DM	Text books, Reference books, PPTs	CO2
20		Communism of Wives	LM/DM	Text books, Reference books, PPTs	CO2
21		Communism of Property	LM/DM	Text books, Reference books, PPTs	CO2
22		Justice in the state and individual	LM/DM	Text books, Reference books, PPTs	CO2
23			LM/DM	Text books, Reference books, PPTs	CO2
		<b>REMEDIAL CLASS</b>			



24			LM/DM	Text books, Text	CO1
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25			LM/DM	Text books, Text	CO1
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26			LM/DM	Text books, Text	CO1
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39			LM/DM	Textbooks,Reference books, PPTs	
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			<b>Question Answer Discussion</b>		
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55	V		LM/DM	Text books, Reference	CO2
56			LM/DM	Text books, Reference	
57			LM/DM	Text books, Reference	
58			LM/DM	Text books, Reference	CO2
59			LM/DM	Text books, Reference books, PPTs	
60			LM/DM	Text books, Reference books, PPTs	
61			LM/DM	Text books, Reference books, PPTs	
62			LM/DM	Text books, Reference	
<b>REMEDIAL CLASS</b>					
63			LM/DM	Text books, Reference books, PPTs	CO2
<b>DOUBT CLEARING CLASS</b>					
64			LM/DM		
<b>Question Answer Discussion</b>					
65					
66					
67					

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Plato's Justice	LM/DM	Text books, Reference books, PPTs	CO1
2		Different definitions of Justice	LM/DM	Text books, Reference books, PPTs	CO1
3		Justice in the state and individual	LM/DM	Text books, Reference books, PPTs	CO1
4		Theory of Three classes and three souls	LM/DM	Text books, Reference	CO1

5		Myth of metals and of earth-born	LM/DM	Text books, Reference	
6		Education; elementary education and higher education	LM/DM	Text books, Reference books, PPTs	
7		What is Plato's Ideal State	LM/DM	Text books, Reference books, PPTs	
8		Feasibility of the ideal state	LM/DM	Text books, Reference books, PPTs	
9		What is Plato's second best state?	LM/DM	Text books, Reference books, PPTs	
10		Is plato a forerunner of modern totalitarianism, or the first fascist?	LM/DM	Text books, Reference books, PPTs	
<b>REMEDIAL CLASS</b>					
11		What is Plato's second best state?	LM/DM	Text books, Reference books, PPTs	
<b>DOUBT CLEARING CLASS</b>					
12		What is Plato's Ideal State	LM/DM	Textbooks,Reference books, PPTs	
			<b>Question Answer Discussion</b>		
13		Feasibility of the ideal state	LM/DM	Textbooks,Reference books, PPTs	

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs	
14	II	Nature of Happiness or Eudamonia	LM/DM	Text books, Reference books, PPTs	CO1	
15		Household (Slaves, Women and Property)	LM/DM	Text books, Reference books, PPTs	CO1	
16		Distributive justice	LM/DM	Text books, Reference books, PPTs	CO1	
17		Rule of Law and Constitution	LM/DM	Text books, Reference books, PPTs	CO1	
18			LM/DM	Text books, Reference		
19			LM/DM	Text books, Reference books, PPTs		
20			LM/DM	Text books, Reference books, PPTs		
21			LM/DM	Text books, Reference books, PPTs		
22			LM/DM	Text books, Reference books, PPTs		
23			LM/DM	Text books, Reference books, PPTs		
		<b>REMEDIAL CLASS</b>				

24			LM/DM	Text books, Text	CO1
25			LM/DM	Text books, Text	CO1
26			LM/DM	Text books, Text	CO1
27	III	Survey methods: Meaning	LM/DM	Text books, Reference books, PPTs	CO3
28		Types of survey method	LM/DM	Textbooks,Reference books, PPTs	CO3
29		Steps and limitation	LM/DM	Textbooks,Reference books, PPTs	CO3
30		Observation method	LM/DM	Textbooks,Reference books, PPTs	CO3
31		Questionnaire and Interview method	LM/DM	Textbooks,Reference books, PPTs	CO3
32		Sampling : Meaning	LM/DM	Text books, Reference books, PPTs	CO3
33		Types of samples		Textbooks,Reference books, PPTs	CO3
34		Selection of Samples	LM/DM	Text books, Reference books, PPTs	CO3
35		Sampling Theory	LM/DM	Textbooks,Reference books, PPTs	CO3
36		Sample size and Its determination	LM/DM	Textbooks,Reference books, PPTs	CO3
<b>REMEDIAL CLASS</b>					
37		Types of samples	LM/DM	Text books, Reference books, PPTs	CO3

		<b>DOUBT CLEARING CLASS</b>
38		Sampling Theory

27	III		LM/DM	Text books, Reference books, PPTs	CO2
28			LM/DM	Textbooks,Reference books, PPTs	
29			LM/DM	Textbooks,Reference books, PPTs	
30			LM/DM	Textbooks,Reference books, PPTs	
31			LM/DM	Textbooks,Reference books, PPTs	
32			LM/DM	Text books, Reference books, PPTs	CO2
33				Textbooks,Reference books, PPTs	
34			LM/DM	Text books, Reference books, PPTs	CO2
35			LM/DM	Textbooks,Reference books, PPTs	
36			LM/DM	Textbooks,Reference books, PPTs	
		<b>REMEDIAL CLASS</b>			
37			LM/DM	Text books, Reference books, PPTs	CO1
		<b>DOUBT CLEARING CLASS</b>			
38					



39			LM/DM	Textbooks,Reference books, PPTs	
		<b>Question Answer Discussion</b>			
		<b>DOUBT CLEARING CLASS</b>			
40					
41	IV		LM/DM	Text books, Reference books, PPTs	CO2
42			LM/DM	Textbooks,Reference books, PPTs	
43			LM/DM	Textbooks,Reference books, PPTs	
44			LM/DM	Text books, Reference books, PPTs	CO2
45			LM/DM	Text books, Reference books, PPTs	CO2

48			LM/DM	Text books, Reference	CO2
49			LM/DM	Text books, Reference	
50			LM/DM	Text books, Reference	
<b>REMEDIAL CLASS</b>					
51			LM/DM	Text books, Reference books, PPTs	CO2
<b>DOUBT CLEARING CLASS</b>					
46			LM/DM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
47			LM/DM	Text books, Reference books, PPTs	CO1

52			LM/DM		
53			<b>Question Answer Discussion</b>		

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23 Course Name	HC- 302 Working of Democracy in India	
Semester	III	
No of Weeks	11	
No of Periods/week	5	
Teacher's Name	Shri Krushna Chandra Swain	

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Democracy : Historical Overview	LM/DM	Text books, Reference books, PPTs	CO1
2		Democracy : Types	LM/DM	Text books, Reference books, PPTs	CO1
3		Direct Democracy	LM/DM	Text books, Reference books, PPTs	CO1
4		History of Direct Democracy	LM/DM	Text books, Reference	CO1

5		Merits and Demerits of Direct Democracy	LM/DM	Text books, Reference	
6		Indirect Democracy	LM/DM	Text books, Reference books, PPTs	
7		History of Indirect democracy	LM/DM	Text books, Reference books, PPTs	
8		Merits and demerits	LM/DM	Text books, Reference books, PPTs	
9		Representative democracy	LM/DM	Text books, Reference books, PPTs	
10		Criticism of Representative Democracy	LM/DM	Text books, Reference books, PPTs	
<b>REMEDIAL CLASS</b>					
11		History of Indirect democracy	LM/DM	Text books, Reference books, PPTs	
<b>DOUBT CLEARING CLASS</b>					
12					
			<b>Question Answer Discussion</b>		
13		Merits and Demerits of Direct Democracy Textbooks, Reference books, PPTs		LM/DM	

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
14	II	Democracy in India ; Origin	LM/DM	Text books, Reference books, PPTs	CO1
15		How India became democratic	LM/DM	Text books, Reference books, PPTs	CO1
16		Indian Political system	LM/DM	Text books, Reference books, PPTs	CO1
17		Secularism and democracy in India	LM/DM	Text books, Reference books, PPTs	CO1
18		History of democracy in India	LM/DM	Text books, Reference	
19		Challenges of democracy in India	LM/DM	Text books, Reference books, PPTs	
20		Democracy and corruption in India	LM/DM	Text books, Reference books, PPTs	
21		Future of democracy in India	LM/DM	Text books, Reference books, PPTs	
22		Will Democracy survive in India	LM/DM	Text books, Reference books, PPTs	
23		Major Democratic Institution	LM/DM	Text books, Reference books, PPTs	

24		Legislature, Executive and Judiciary	LM/DM	Text books, Text	CO1
		<b>REMEDIAL CLASS</b>			
25		How India became democratic	LM/DM	Text books, Text	CO1
26		Indian Political system	LM/DM	Text books, Text	CO1

27	III	Workers movement	LM/DM	Text books, Reference books, PPTs	CO2
28		Origin of the workers movement	LM/DM	Textbooks,Reference books, PPTs	
29		Labour Parties	LM/DM	Textbooks,Reference books, PPTs	
30		Peasant movement	LM/DM	Textbooks,Reference books, PPTs	
31		Peasant movement by country	LM/DM	Textbooks,Reference books, PPTs	
32		Women's movement	LM/DM	Text books, Reference books, PPTs	CO2
33		History of women movement		Textbooks,Reference books, PPTs	
34		Women's movement in western Society	LM/DM	Text books, Reference books, PPTs	CO2
35		Tribal movement	LM/DM	Textbooks,Reference books, PPTs	
36		Causes of tribal movement	LM/DM	Textbooks,Reference books, PPTs	
<b>REMEDIAL CLASS</b>					
37		Peasant movement	LM/DM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
38		History of women movement			



			LM/DM		
39		Tribal movement Textbooks, Reference books, PPTs			
		<b>Question Answer Discussion</b>			
40		Origin of the workers movement			
	IV	Identity Politics: Caste	LM/DM	Text books, Reference books, PPTs	CO2
41		Meaning of caste	LM/DM	Text books, Reference books, PPTs	CO2
42		Types of caste	LM/DM	Textbooks, Reference books, PPTs	
43		Casteism in india	LM/DM	Textbooks, Reference books, PPTs	
44		Religion : Defination	LM/DM	Text books, Reference books, PPTs	CO2
45		Types of religion	LM/DM	Text books, Reference books, PPTs	CO2

46		Criticism of Religion	LM/DM	Text books, Reference books, PPTs	CO2
47		Language and Ethnicity : Defination	LM/DM	Text books, Reference books, PPTs	CO1
48		Impact of ethnicity	LM/DM	Text books, Reference books, PPTs	CO2
49		Conclusion	LM/DM	Text books, Reference books, PPTs	CO1
		<b>REMEDIAL CLASS</b>			
50		Types of religion	LM/DM	Text books, Reference books, PPTs	CO1
		<b>Question answer class</b>			
51		Language and Ethnicity : Defination	LM/DM	Text books, Reference books, PPTs	CO2

52		Casteism in india	LM/DM	Text books, Reference books, PPTs	CO2
53		Language and Ethnicity : Defination	LM/DM	Text books, Reference books, PPTs	CO2
54			LM/DM	Text books, Reference books, PPTs	CO2

55	V	Civil society: definition	LM/DM	Text books, Reference	CO2
56		Institution of civil society	LM/DM	Text books, Reference	
57		The contemporary critique of civil society theory	LM/DM	Text books, Reference	
58		Civil society in the third world	LM/DM	Text books, Reference	CO2
59		Civil society in india	LM/DM	Text books, Reference books, PPTs	
60		Challenges faced by civil society organization	LM/DM	Text books, Reference books, PPTs	
61		Changing nature of indian state development and coercive	LM/DM	Text books, Reference books, PPTs	
62		Political economy development	LM/DM	Text books, Reference	
<b>REMEDIAL CLASS</b>					
63		Civil society in india	LM/DM	Text books, Reference books, PPTs	CO2
<b>DOUBT CLEARING CLASS</b>					
64			LM/DM		
<b>Question Answer Discussion</b>					
65		The contemporary critique of civil society theory			
66		Challenges faced by civil society organization			
67		Political economy development			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE	POLITICAL SCIENCE
Course Name	HC- 402 INDIAS FOREIGN POLICY	CC – VI, LAB Organic Chemistry
Semester	IV	III
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Shri K. C. Swain	

Total No. of periods: 52 (Theory) + 10 (Remedial)+05 (Doubtclear class) = 67

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Meaning of indias foreigen policy	LM/DM	Text books, Reference books, PPTs	CO1
2		Basic principles of indias foreign policy	LM/DM	Text books, Reference books, PPTs	CO1
3		Features of indias foreign policy	LM/DM	Text books, Reference books, PPTs	CO1

4		Philosophical foundation	LM/DM	Text books, Reference	CO1
5		Evolution of indias foreign policy	LM/DM	Text books, Reference	CO1
6		Evolution of indias foreign policy	LM/DM	Text books, Reference books, PPTs	CO1
7		Evolution of indias foreign policy	LM/DM	Text books, Reference books, PPTs	CO1
8		Changing dynamics of indias foreign policy	LM/DM	Text books, Reference books, PPTs	CO1
9		Geo-politics	LM/DM	Text books, Reference books, PPTs	CO1
10		Global order	LM/DM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
11		Evolution of indias foreign policy	LM/DM	Text books, Reference books, PPTs	
<b>DOUBT CLEARING CLASS</b>					
12		Changing dynamics of indias foreign policy			
		Philosophical foundation	<b>Question Answer Discussion</b>		
13		LM/DM		Textbooks, Reference books, PPTs	

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
14	II	Indias relation with major power	LM/DM	Text books, Reference books, PPTs	CO2
15		India –USA relation	LM/DM	Text books, Reference books, PPTs	CO2
16		Evolution of indo-us relation	LM/DM	Text books, Reference books, PPTs	CO2
17		Important areas of cooperation	LM/DM	Text books, Reference books, PPTs	CO2
18		Major Challenges	LM/DM	Text books, Reference	CO2
19		India- Russia relation	LM/DM	Text books, Reference books, PPTs	CO2
20		Evolution of indo-russia relation	LM/DM	Text books, Reference books, PPTs	CO2
21		Important areas of cooperation	LM/DM	Text books, Reference books, PPTs	CO2
22		Major challenges	LM/DM	Text books, Reference books, PPTs	CO2
23		India- china relation	LM/DM	Text books, Reference books, PPTs	CO2

24	III	India and SAARC	LM/DM	Text books, Reference books, PPTs	CO3
25		SAARC Member nations and their relations	LM/DM	Textbooks,Reference books, PPTs	CO3
26		SAARC Nations Problems and solutions	LM/DM	Textbooks,Reference books, PPTs	CO3
27		Discussions SAARC nations summit	LM/DM	Textbooks,Reference books, PPTs	CO3
28		Secretarial Meeting	LM/DM	Textbooks,Reference books, PPTs	CO3
29		India and ASEAN	LM/DM	Text books, Reference books, PPTs	CO3
30		India and ASEAN centre for cooperation		Textbooks,Reference books, PPTs	CO3
31		20 <sup>th</sup> Asea-India summit and the 18 <sup>th</sup> East Asia Summit	LM/DM	Text books, Reference books, PPTs	CO3
32		India is one of the leading Trade partner in Asean	LM/DM	Textbooks,Reference books, PPTs	CO3
33		Indian Asean Free trade Agreement	LM/DM	Textbooks,Reference books, PPTs	CO3
		<b>REMEDIAL CLASS</b>			
34		Discussions SAARC nations summit	LM/DM	Text books, Reference books, PPTs	CO3



35	IV	India and UNO	LM/DM	Text books, Reference books, PPTs	CO3
36		UN Organs and its functions	LM/DM	Textbooks,Reference books, PPTs	CO3
37		Permanent mission of India to the UNO	LM/DM	Textbooks,Reference books, PPTs	CO3
38		Peace keeping Missions	LM/DM	Textbooks,Reference books, PPTs	CO3
39		India and BRICS	LM/DM	Textbooks,Reference books, PPTs	CO3
40		Founder Nations and its Fuctions	LM/DM	Text books, Reference books, PPTs	CO3
41		India's Trade and Development with BRICS		Textbooks,Reference books, PPTs	CO3
42		India and BIMSTEC	LM/DM	Text books, Reference books, PPTs	CO3
43		BIMSTEC Members	LM/DM	Textbooks,Reference books, PPTs	CO3
44		Meeting and events	LM/DM	Textbooks,Reference books, PPTs	CO3
<b>REMEDIAL CLASS</b>					
45		India and BRICS	LM/DM	Text books, Reference books, PPTs	CO3
46		India and BIMSTEC	LM/DM		CO3
47		India's Trade and Development with BRICS	LM/DM		CO3

48					
49	V	India's Nuclear Policy	LM/DM	Text books, Reference books, PPTs	CO3
50		Principles and Pillars of Nuclear Doctrine of India	LM/DM	Textbooks, Reference books, PPTs	CO3
51		India and Weapons of Mass Destruction	LM/DM	Textbooks, Reference books, PPTs	CO3
52		India's Economic Diplomacy	LM/DM	Textbooks, Reference books, PPTs	CO3
53		Understanding Economic Diplomacy	LM/DM	Textbooks, Reference books, PPTs	CO3
54		Indias New Inclusive Trade Diplomacy	LM/DM	Text books, Reference books, PPTs	CO3
55		Indian Economic Diplomacy: Mobilizing the state	LM/DM	Textbooks, Reference books, PPTs	CO3
56		India, Global Security and Disarmament	LM/DM	Text books, Reference books, PPTs	CO3
57		Conference on Disarmament	LM/DM	Textbooks, Reference books, PPTs	
58		United Nations Security Council	LM/DM	Textbooks, Reference books, PPTs	
		<b>REMEDIAL CLASS</b>			
59		Chemical Weapons Convention	LM/DM	Text books, Reference books, PPTs	CO3

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	C-I, UNDERSTANDING POLITICAL THEORY
Semester	I
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr. Moushumi Pattnaik

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Understanding Political Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Introducing Political Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		What is Politics and Theorizing the Political	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Meaning and Definition of Political Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Traditions of Political Theory: Classical	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Liberal Political Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Marxist Political Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Anarchist Political Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Conservative Political Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO1

10		Scientific-Empirical- Behavioural	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Approach to Political Theory: Normative	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		Historical Approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Behavioral Approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		Post-behavioural Approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Contemporary Political Theory			
<b>REMEDIAL CLASS</b>					
16		Traditional View of Political Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Difference between Politics and political science	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		Modern conceptualization of politics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
19		Marxist Political Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Behavioural and post-behavioural Approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II	Critical and Contemporary Perspective in Political Theory			
21		Theories of Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Feminist Perspective of Politics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Sex and Gender	LM/ICT/IM	Text books, Reference books, PPTs	CO1
24		Feminism: meaning and forms	LM/ICT/IM	Text books, Reference books, PPTs	CO2

25	Liberal Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26	Socialist Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27	Radical Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28	Feminism in the era of Post-Modernism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29	Critical Evaluation of Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30	Modernism: Meaning and nature	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31	Modernism as the child of the enlightenment	LM/ICT/IM	Text books, Reference books, PPTs	CO2
32	Basic Themes of Post-modernism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33	Politics in the era of Post- Modernism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
34	Sailent Features Post-Modernism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
35	Critical appraisal of Post modernism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>				
36	Basic Theme of Post-modernism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
37	Post-Modernism as a revolt against modernism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
38	Understanding Enlightenment Project	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>Remedial Class</b>				
39	Modernism and Post-Modernism an Overview	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>QUESTION ANSWER DISCUSSION</b>				

40		Feminism and Modernism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
41	III	Political Theory and Practice			
42		The concept of Democracy	LM/ICT/IM	Text books, Reference books, PPTs	CO2
43		Meaning of Democracy : Classical view	LM/ICT/IM	Text books, PPTs	CO2
44		Modern view of Democracy	LM/ICT/IM	Text books, PPTs	CO2
45		Direct Democracy	LM/ICT/IM	Text books, PPTs	CO2
46		Indirect Democracy	LM/ICT/IM	Text books, PPTs	CO2
47		Basic principles of democracy	LM/ICT/IM	Text books, PPTs	CO2
48		Liberal Democracy: meaning	LM/ICT/IM	Text books, PPTs	CO2
49		Salient Features of Liberal democracy	LM/ICT/IM	Text books, PPTs	CO2
50		Critical Evolution Of Democracy	LM/ICT/IM	Text books, PPTs	CO2
51		Marxist theory of Democracy	LM/ICT/IM	Text books, PPTs	CO2
52		Salient Features of Marxist Democracy	LM/ICT/IM	Text books, PPTs	CO2
53		Criticism Of Marxian theory of Democracy	LM/ICT/IM	Text books, PPTs	CO2
54		Procedural Democracy	LM/ICT/IM	Text books, PPTs	CO2
55		Critical analysis of Procedural democracy	LM/ICT/IM	Text books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
56		Procedural democracy Vs. Substantive Democracy	LM/ICT/IM	Text books, Reference books, PPTs	CO2
57		Three dimensions of Democracy	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>DOUBT CLEAR CLASS</b>					
58		Liberal Theory of Democracy	LM/ICT/IM	Text books, Reference books, PPTs	CO3
59		Marxist View of Democracy	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>QUESTION ANSWER DISCUSSION</b>					
60		Liberal, Marxist and Procedural Democracy	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	IV	THE GRAMMER OF DEMOCRACY			

61		Deliberative Democracy	LM/ICT/IM	Text books, Reference books, PPTs	CO3
62		Views of Gutmann and Denis Tompson	LM/ICT/IM	Text books, Reference books, PPTs	CO3
63		Critical Analysis of Democracy	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64	IV	Participation and Representation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Political Participation: Meaning	LM/ICT/IM	Text books, PPTs	CO4
66		Activities of political participation	LM/ICT/IM	Text books, PPTs	CO4
67		Forms of participation	LM/ICT/IM	Text books, PPTs	CO4
68		Classification of participation	LM/ICT/IM	Text books, PPTs	CO4
69		Level of political participation	LM/ICT/IM	Text books, PPTs	CO4
70		Determinants of Political Participation	LM/ICT/IM	Text books, PPTs	CO4
71		Participatory Theory of Democracy	LM/ICT/IM	Text books, PPTs	CO4
72		Salient features of Participatory Democracy	LM/ICT/IM	Text books, PPTs	CO4
73		Representation: meaning	LM/ICT/IM	Text books, PPTs	CO4
74		Models of representation	LM/ICT/IM	Text books, PPTs	CO4
75		Functional representation	LM/ICT/IM	Text books, PPTs	CO4
		<b>REMEDIAL CLASS</b>			
76		Features of delivery democracy	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		Universal Adult Franchise			
		<b>Doubt clear class</b>			
78		Participatory Democracy and Deliberative democracy	LM/ICT/IM	Text books, PPTs	CO4
		<b>QUESTION ANSWER DISCUSSION</b>			
79		Deliberative democracy			
80		Participation and representation			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	C-II Constitutional Government and Politics
Semester	I
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr.Srinivas Barik



Total No. of periods: 60 (Theory) + 15(Remedial Class)+5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	The constituent assembly and the constitution	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Historical background part 1	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Historical back ground part2	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Formation of constituent assembly	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Working of constituent assembly	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Philosophy of the constitution	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		The Preamble: Introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Preamble and its Features	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Criticism of Preamble	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Fundamental Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Fundamental Rights and Articles	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		Fundamental Rights and Articles	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Directive Principles of State Policy	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		DPSP and its Articles	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Fundamental Duties	LM/ICT/IM	Text books, Reference books, PPTs	CO1

<b>REMEDIAL CLASS</b>					
16		Government of India Act 1909 and 1919	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Cultural and Educational Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		Preamble of Constitution	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
19		Fundamental Rights and its Cases	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Criticism of Fundamental rights	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II	The Legislature			
21		The Lok Sabha	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Composition and Functions of Lok Sabha	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Power of Lok Sabha: Legislative and Executive Power	LM/ICT/IM	Text books, Reference books, PPTs	CO1
24		Judicial Power and Other Power	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Composition and Function of Rajya Sabha	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Power of Rajya Sabha	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Special Power of Rajya Sabha	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		Comparison between Lok Sabha and Rajya Sabha	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		Supreme Court	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		Composition and Functions of Supreme Court	LM/ICT/IM	Text books, Reference books, PPTs	CO2

31		Power of Supreme Court	LM/ICT/IM	Text books, Reference books, PPTs	CO2
32		Different Cases	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33		High Court	LM/ICT/IM	Text books, Reference books, PPTs	CO2
34		Composition and Functions of High Court	LM/ICT/IM	Text books, Reference books, PPTs	CO2
35		Power of High Court	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
36		Speaker's Power	LM/ICT/IM	Text books, Reference books, PPTs	CO2
37		Speaker's Function	LM/ICT/IM	Text books, Reference books, PPTs	CO2
38		Articles Related to Supreme Court	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>Remedial Class</b>					
39		Special Power of Rajya Sabha	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>QUESTION ANSWER DISCUSSION</b>					
40		Composition of Lok Sabha and Rajya Sabha	LM/ICT/IM	Text books, Reference books, PPTs	CO2
41	III	Federalism: Centre-State Relation			
42		Features of Federalism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
43		Types of Centre-State Relation	LM/ICT/IM	Text books, PPTs	CO2
44		Legislative Relation 1	LM/ICT/IM	Text books, Reference books, PPTs	CO2
45		Legislative Relation 2	LM/ICT/IM	Text books, Reference books, PPTs	CO2
46		Administrative Relation 1	LM/ICT/IM	Text books, Reference books, PPTs	CO2

47		Administrative Relation 2	LM/ICT/IM	Text books, Reference books, PPTs	CO2
48		Financial Relation 1	LM/ICT/IM	Text books, Reference books, PPTs	CO2
49		Financial Relation 2	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50		Constitutional Provisions relating to centre-state relations with regards to the Parliament	LM/ICT/IM	Text books, Reference books, PPTs	CO2
51		Constitutional Provision	LM/ICT/IM	Text books, Reference books, PPTs	CO2
52		Challenges faced by Indian Federalism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
53		Challenges faced by Indian Federalism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
54		Need to Strengthen Federalism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
55		Conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
56		Legislative Relation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
57		Committees on Centre-State Relation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>DOUBT CLEAR CLASS</b>					
58		Administrative Relation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
59		Financial Relation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>QUESTION ANSWER DISCUSSION</b>					
60		Nature of Federalism	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	IV	Decentralisation			

61		Panchayati Raj Institutions	LM/ICT/IM	Text books, Reference books, PPTs	CO3
62		Composition of Gram panchayat	LM/ICT/IM	Text books, Reference books, PPTs	CO3
		Powers			
63		Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Composition and Power of Panchayat Samiti	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Functions of Panchayat Samiti	LM/ICT/IM	Text books, PPTs	CO4
66		Composition and Functions of Zilla Parishad	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		Power of Zilla Parishad	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		Composition of Municipal Corporation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		Functions of Municipal Corporation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		Power of Municipal Corporation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Composition of Notified Area Council	LM/ICT/IM	Text books, Reference books, PPTs	CO4
72		Functions of NAC	LM/ICT/IM	Text books, Reference books, PPTs	CO4
73		Power of NAC	LM/ICT/IM	Text books, Reference books, PPTs	CO4
74		Criticism	LM/ICT/IM	Text books, Reference books, PPTs	CO4
75		Conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>REMEDIAL CLASS</b>					

76		Functions and Power of Panchayat samiti	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		Power of Municipal Corporation			
		<b>Doubt clear class</b>			
78		Composition of NAC	LM/ICT/IM	Text books, PPTs	CO4
		<b>QUESTION ANSWER DISCUSSION</b>			
79		Power of Gram Panchayat			
80		Composition and Power Of Panchayat Samiti			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	GE- FEMINISM: THEORY and Practice
Semester	I
No of Weeks	11
No of Periods/week	5
Teacher's Name	Mr.Paban ku. Moharana

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Understanding Feminism: Introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Origin and Development of Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Waves of Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		First Wave Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Second Wave of Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Third Wave of Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Fourth Wave of Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Central Theme of Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Criticisms	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Feminist Theorizing of the Sex-Gender Distinction	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Distinction between Sex and Gender	LM/ICT/IM	Text books, Reference books, PPTs	CO1

12		Sex-Gender Debate	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Public Men and Private Women	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		Understanding Patriarchy and Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Features of Patriarchy	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
16		First Wave	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Central Theme	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		Sex and Gender Debate	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
19		Second Wave	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Third Wave	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II	Theories of Feminism			
21		Liberal Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Arguments of Liberal Feminists	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Features of Liberal Feminist	LM/ICT/IM	Text books, Reference books, PPTs	CO1
24		Criticisms of Liberal Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Social /Marxist Theory of Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Features of Socialist/Marxist Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2



27		Criticism of Social Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		Radical Feminist Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		Central themes of Radical Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		Features of Radical Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		Criticism of Radical Feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
32		Origin of eco-feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33		Theoretical debate of eco-feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
34		Indian perspective of eco-feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
35		Eco-feminist movement in India	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
36		Western eco-feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
37		Socialist feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
38		Prakriti and Shakti: Indian Approach in Eco-feminism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>Remedial Class</b>					
39		Feminism an overview	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>QUESTION ANSWER DISCUSSION</b>					
40		Feminism: Liberal, Radical, Marxist	LM/ICT/IM	Text books, Reference books, PPTs	CO2
41	III	Feminist Issues and Women Participation: The Indian Experience	LM/ICT/IM	Text books, Reference books, PPTs	CO2

42		Women's participation in Colonial Period	LM/ICT/IM	Text books, Reference books, PPTs	CO2
43		Women in Nationalist Movement	LM/ICT/IM	Text books, PPTs	CO2
44		Phases of Women participation in NLM	LM/ICT/IM	Text books, Reference books, PPTs	CO2
45		Forms of women participation in the freedom movement	LM/ICT/IM	Text books, Reference books, PPTs	CO2
46		Growth of feminist Historiography in India	LM/ICT/IM	Text books, Reference books, PPTs	CO2
47		Rewriting of history through Feminist Histography	LM/ICT/IM	Text books, Reference books, PPTs	CO2
48		Methodological Challenges to feminist histography	LM/ICT/IM	Text books, Reference books, PPTs	CO2
49		Women Movement as Social Reform Movement	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50		Social Reform Movement and emancipation of Women	LM/ICT/IM	Text books, Reference books, PPTs	CO2
51		Position of Women in Ancient India and Vedic Period	LM/ICT/IM	Text books, Reference books, PPTs	CO2
52		Women During Buddhist Period and Medieval Period	LM/ICT/IM	Text books, Reference books, PPTs	CO2
53		History of Women's Struggle in Post Independent India	LM/ICT/IM	Text books, Reference books, PPTs	CO2
54		Constitutional Provisions	LM/ICT/IM	Text books, Reference books, PPTs	CO2
55		Social Legislation Safeguarding Women's Interest	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
56		Enactment of Social Legislation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
57		Position of Women During British Period	LM/ICT/IM	Text books, Reference books, PPTs	CO3

<b>DOUBT CLEAR CLASS</b>					
58		Role of Women's Organisation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
59		Different Institutional Arrangements for Women's Development	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>QUESTION ANSWER DISCUSSION</b>					
60		Gender Based Violence	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	IV	Family in Contemporary India			
61		Gender Relation in Family	LM/ICT/IM	Text books, Reference books, PPTs	CO3
62		Patterns of Consumptions	LM/ICT/IM	Text books, Reference books, PPTs	CO3
63		Property Rights of Women in India	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Understanding Women Work and Labour	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Sexual Division of Labour	LM/ICT/IM	Text books, PPTs	CO4
66		Productive and Reproductive Labour	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		Visible work	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		Invisible Work	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		Unpaid Work	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		Paid Work	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Methods of Computing Women's Work	LM/ICT/IM	Text books, Reference books, PPTs	CO4

72		Methods of Computing Women's Work	LM/ICT/IM	Text books, Reference books, PPTs	CO4
73		Female Headed Households	LM/ICT/IM	Text books, Reference books, PPTs	CO4
74		Reasons for Creation and Proliferation of Female headed Households	LM/ICT/IM	Text books, Reference books, PPTs	CO4
75		Social Problems of Female Headed Households	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>REMEDIAL CLASS</b>					
76		Political Problems	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		Economical Problems of Female Households			
<b>Doubt clear class</b>					
78		Patterns of Consumptions	LM/ICT/IM	Text books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>					
79		Women's Work and Labour			
80		Political Problems of Female Households			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	C-III, Political Theory- Concepts and Debates
Semester	II
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr. Moushumi Pattnaik

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Importance of Freedom	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		What is liberty	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Negative Liberty	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Positive Liberty	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Positive Freedom as freedom of emancipation and development	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Kinds of liberty	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Safeguards of Freedom	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Law and liberty	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Significance of Equality	LM/ICT/IM	Text books, Reference books, PPTs	CO1

10		Meaning and Definition equality	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Nature of equality	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		Kinds of equality	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Equality as equality of opportunity	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		Egalitarianism			CO1
15		Affirmative Action: meaning and importance			
<b>REMEDIAL CLASS</b>					
16		Importance of affirmative action	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Equality and liberty	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		The essential condition of equality	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
19		Economic and social liberty	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Freedom of Belief, expression and Dissent	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II	Indispensability of Justice			
21		Meaning and Definition justice	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Features of Justice	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Forms of justice	LM/ICT/IM	Text books, Reference books, PPTs	CO1
24		Social justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Procedural justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2

26		Substantive justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		John Rawls theory of justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		Global justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		Scope of Global justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		Issue of capital punishment	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		Justice and Liberty	LM/ICT/IM	Text books, Reference books, PPTs	CO2
32		Justice and Equality	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33		Political justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2
34		Economic justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2
35		Difference between procedural and substantive justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
36		Social justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2
37		Rawls theory of justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2
38		Justice an overview	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>Remedial Class</b>					
39		Meaning of Global justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>QUESTION ANSWER DISCUSSION</b>					
40		Justice and equality	LM/ICT/IM	Text books, Reference books, PPTs	CO2
41	III	The Universality of rights			

42		Universality of Human Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
43		Meaning and nature of rights	LM/ICT/IM	Text books, PPTs	CO2
44		Negative and positive rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
45		Meaning and nature of Human Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
46		Types of Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
47		Theory of natural rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
48		Theory of legal rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
49		Theory of moral rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50		Economic and political rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
51		Three Generation of Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
52		Duty/obligation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
53		Kinds of obligation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
54		Rights of the Child	LM/ICT/IM	Text books, Reference books, PPTs	CO2
55		Necessary steps for the protection of the Girl child			
<b>REMEDIAL CLASS</b>					
56		Three generation of rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
57		Theory of natural rights	LM/ICT/IM	Text books, Reference books, PPTs	CO3



<b>DOUBT CLEAR CLASS</b>					
58		Moral rights theory	LM/ICT/IM	Text books, Reference books, PPTs	CO3
59		Legal rights theory	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>QUESTION ANSWER DISCUSSION</b>					
60		Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	IV	Major debates			
61		Political obligation: meaning	LM/ICT/IM	Text books, Reference books, PPTs	CO3
62		Divine theory of political obligation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
		Force theory of political obligation			
63		Consent theory of political obligation	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Prescriptive theory of political obligation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Utilitarian theory of political obligation	LM/ICT/IM	Text books, PPTs	CO4
66		Idealist theory of political obligation	LM/ICT/IM	Text books, PPTs	CO4
67		T. H. Green's theory of political obligation	LM/ICT/IM	Text books, PPTs	CO4
68		Marxian theory of political obligation	LM/ICT/IM	Text books, PPTs	CO4
69		Culturalism Relativism	LM/ICT/IM	Text books, PPTs	CO4
70		Arguments against cultural relativism	LM/ICT/IM	Text books, PPTs	CO4
71		Multiculturalism: meaning	LM/ICT/IM	Text books, PPTs	CO4
72		Multiculturalism as a concept of society	LM/ICT/IM	Text books, PPTs	CO4
73		Multiculturalism as a policy	LM/ICT/IM	Text books, PPTs	CO4
74		Thin and Thick Multiculturalism	LM/ICT/IM	Text books, PPTs	CO4
75		Multiculturalism in contemporary times	LM/ICT/IM	Text books, PPTs	CO4
<b>REMEDIAL CLASS</b>					

76		Multiculturalism and human rights	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		Multiculturalism and social justice			
<b>Doubt clear class</b>					
78		Culturalism relativism	LM/ICT/IM	Text books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>					
79		Three generation of rights			
80		Multiculturalism, political obligation			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc, IM – Interactive Methods (Quiz, Brainstorming etc), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
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Course Name	C-IV Political Process in India
Semester	II
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr.Gayatri Kar

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Party System in India	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Features	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Trends of Party system in India	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Trends of Party system in India	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Voting Behaviour and its Determinants	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Caste	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Class	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Gender	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Religion	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Election Commission	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Composition	LM/ICT/IM	Text books, Reference books, PPTs	CO1

12		Functions	LM/ICT/IM	Text books, Reference books, PPTs	
13		Electoral Reforms I	LM/ICT/IM	Text books, Reference books, PPTs	
14		Electoral Reforms II	LM/ICT/IM	Text books, Reference books, PPTs	
15		Electoral Reform III	LM/ICT/IM	Text books, Reference books, PPTs	
<b>REMEDIAL CLASS</b>					
16		Voting Behaviour	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Gender	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		Religion	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
19		Trends of Party system in India	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Caste	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II				
21		Regionalism, Religion and Politics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Regionalism: Meaning and Features	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Regionalism: Causes	LM/ICT/IM	Text books, Reference books, PPTs	CO1
24		Regionalism: Trends	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Regionalism: Trends	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Secularism: meaning	LM/ICT/IM	Text books, Reference books, PPTs	CO2

27		Secularism: Features	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		Trends I	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		Trends II	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		Communalism: Introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		Features	LM/ICT/IM	Text books, Reference books, PPTs	CO2
32		Communalism: Debate I	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33		Communalism: Debate II	LM/ICT/IM	Text books, Reference books, PPTs	CO2
34		Communalism: Debate III	LM/ICT/IM	Text books, Reference books, PPTs	CO2
35		Communalism: Debate IV	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
36		Secularism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
37		Regionalism: Causes	LM/ICT/IM	Text books, Reference books, PPTs	CO2
38		Regionalism: Trends	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>Remedial Class</b>					
39		Secularism: Trends	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>QUESTION ANSWER DISCUSSION</b>					
40		Regionalism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
41	III	Caste and Politics			
42		Caste and Politics: Politicisation	LM/ICT/IM	Text books, Reference books, PPTs	CO2

43		Politicisation of Caste I	LM/ICT/IM	Text books, PPTs	CO2
44		Politicisation of Caste II	LM/ICT/IM	Text books, PPTs	CO2
45		Affirmative Action	LM/ICT/IM	Text books, PPTs	CO2
46		Policies I	LM/ICT/IM	Text books, PPTs	CO2
47		Policies II	LM/ICT/IM	Text books, PPTs	CO2
48		Policies III	LM/ICT/IM	Text books, PPTs	CO2
49		Women I	LM/ICT/IM	Text books, PPTs	CO2
50		Women II	LM/ICT/IM	Text books, PPTs	CO2
51		Women III	LM/ICT/IM	Text books, PPTs	CO2
52		Caste I	LM/ICT/IM	Text books, PPTs	CO2
53		Caste II	LM/ICT/IM	Text books, PPTs	CO2
54		Marginalised Class	LM/ICT/IM	Text books, PPTs	CO2
55		Marginalized Class	LM/ICT/IM	Text books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
56		Marginalized Class	LM/ICT/IM	Text books, Reference books, PPTs	CO2
57		Policies	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>DOUBT CLEAR CLASS</b>					
58		Politicization of Caste	LM/ICT/IM	Text books, Reference books, PPTs	CO3
59		Caste	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>QUESTION ANSWER DISCUSSION</b>					
60		Politics	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	IV	The Changing Nature of the India State			
61		Development	LM/ICT/IM	Text books, Reference books, PPTs	CO3
62		Meaning and Nature	LM/ICT/IM	Text books, Reference books, PPTs	CO3

63		Process of Development	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Process of Development	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Stages of Development	LM/ICT/IM	Text books, PPTs	CO4
66		Stages of Development	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		Welfare State: Origin	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		Welfare State: Characteristics	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		Function of Modern State	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		India as Welfare State	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Socialist Principles	LM/ICT/IM	Text books, Reference books, PPTs	CO4
72		Gandhian Principles	LM/ICT/IM	Text books, Reference books, PPTs	CO4
73		Liberal Principles	LM/ICT/IM	Text books, Reference books, PPTs	CO4
74		General Principles	LM/ICT/IM	Text books, Reference books, PPTs	CO4
75		Assessment	LM/ICT/IM	Text books, Reference books, PPTs	CO4
		<b>REMEDIAL CLASS</b>			
76		Socialist Principles	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		Liberal Principles			

		<b>Doubt clear class</b>		
78		Functions of Modern State	LM/ICT/IM	Text books, PPTs
		<b>QUESTION ANSWER DISCUSSION</b>		
79		Stages of Development		
80		Gandhian Principles		

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	GE- II, Governance: Issues and Challenges



Semester	II
No of Weeks	11
No of Periods/week	5
Teacher's Name	Mr.Paban Ku. Moharana

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Governance: Issues and Challenges	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Government and governance: Concepts	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Governance: Meaning	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Nature	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Types	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Roles of State	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Origin of State	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Nature of State	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Theory of State	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Role of State in the Era of Globalization	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Role of State in the Era of Globalization	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		Market	LM/ICT/IM	Text books, Reference books, PPTs	CO1

13		Concept of Civil Society	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		Role of Civil Society	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Criticism of Civil Society	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
16		Concept of Governance	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Role of State	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		Role of Civil Society	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
19		Origin of State	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Nature of Civil Society	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II	Good Governance			
21		What is Governance	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Principles 1	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Principles 2	LM/ICT/IM	Text books, Reference books, PPTs	CO1
24		Initiatives for Good Governance in India	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Initiatives for Good Governance in India	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Good Governance Index	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Challenges to Good Governance	LM/ICT/IM	Text books, Reference books, PPTs	CO2

28		Challenges to Good Governance	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		Conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		What Sustainable and Governance	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		Objectives	LM/ICT/IM	Text books, Reference books, PPTs	CO2
32		SDG 1,2,3,4,5,6,7,8	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33		SDG 9,10,11,12,13,14,15,15,17	LM/ICT/IM	Text books, Reference books, PPTs	CO2
34		Partners	LM/ICT/IM	Text books, Reference books, PPTs	CO2
35		Challenges	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
36		Initiatives	LM/ICT/IM	Text books, Reference books, PPTs	CO2
37		Good Governance	LM/ICT/IM	Text books, Reference books, PPTs	CO2
38		Good Governance Index	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>Remedial Class</b>					
39			LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>QUESTION ANSWER DISCUSSION</b>					
40		Principles of SDG	LM/ICT/IM	Text books, Reference books, PPTs	CO2
41	III	Democratic Decentralisation			
42		Local Self Government	LM/ICT/IM	Text books, Reference books, PPTs	CO2
43		Gram Panchayat: composition and Functions	LM/ICT/IM	Text books, PPTs	CO2

44		Panchayat Samiti: Composition	LM/ICT/IM	Text books, Reference books, PPTs	CO2
45		Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO2
46		Zilla Parishad: Composition	LM/ICT/IM	Text books, Reference books, PPTs	CO2
47		Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO2
48		Municipal Corporation: Composition	LM/ICT/IM	Text books, Reference books, PPTs	CO2
49		Municipal Corporation: Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50		Municipality: Composition	LM/ICT/IM	Text books, Reference books, PPTs	CO2
51		Municipality: Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO2
52		Notified Area Council: Composition	LM/ICT/IM	Text books, Reference books, PPTs	CO2
53		Notified Area Council: Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO2
54		Problems Faced by Local Bodies	LM/ICT/IM	Text books, Reference books, PPTs	CO2
55		Initiatives	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
56		Municipal Corporation: Composition	LM/ICT/IM	Text books, Reference books, PPTs	CO2
57		Municipality: Composition	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>DOUBT CLEAR CLASS</b>					
58		People's Participation	LM/ICT/IM	Text books, Reference books, PPTs	CO3

59		Notified Area Council: Composition	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>QUESTION ANSWER DISCUSSION</b>					
60		Notified Area Council: Functions	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	IV	Good Governance Initiatives in India			
61		Public Service Guarantee Acts	LM/ICT/IM	Text books, Reference books, PPTs	CO3
62		Odisha Right to Public Service Act, 2012	LM/ICT/IM	Text books, Reference books, PPTs	CO3
		Salient Features of the Act			
63		Need of PSG act	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Significance of the PSG Act	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Challenges of public Service Act, 2012	LM/ICT/IM	Text books, PPTs	CO4
66		Impact of the Act	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		Public Service Act and Electronic Governance	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		Citizen's Charter	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		Right to information	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		Features of RTI	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Scope of RTI	LM/ICT/IM	Text books, Reference books, PPTs	CO4
72		Governance and Process	LM/ICT/IM	Text books, Reference books, PPTs	CO4
73		Corporate Social Responsibility	LM/ICT/IM	Text books, Reference books, PPTs	CO4

74		Types of CSR	LM/ICT/IM	Text books, Reference books, PPTs	CO4
75		Importance of CSR	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>REMEDIAL CLASS</b>					
76		Public Service Guarantee Acts	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		Features of Corporate Social Relationship			
<b>Doubt clear class</b>					
78		RTI	LM/ICT/IM	Text books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>					
79		Question of RTI , Public Service Act			
80		Citizen charter			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	C-V, Introduction to comparative Government and Politics
Semester	III
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr.Moushumi Pattanaik

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Understanding Comparative Politics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Meaning and nature of Comparative Politics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Scope of Comparative politics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Evolution of comparative politics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Techniques of Comparison	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Approach to the study of comparative politics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Traditional approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1

8		Philosophical approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Historical approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Institutional approach and modern approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Easton's system analysis	LM/ICT/IM	LM/ICT/IM	CO1
12		Analysis of input and output model	LM/ICT/IM	LM/ICT/IM	CO1
13		Structural-functional approach	LM/ICT/IM	LM/ICT/IM	CO1
14		Function of political system	LM/ICT/IM	LM/ICT/IM	CO1
15		Criticism	LM/ICT/IM	LM/ICT/IM	CO1
		<b>REMEDIAL CLASS</b>			
16		Input-output model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Capabilities of political system	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		Philosophical approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1
		<b>DOUBT CLEARING CLASS</b>			
19		Difference between classical and modern approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Black box model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II	Historical Concept of Modern Government			
21		What is Socialism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Types of Socialism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Socialism and its Growth	LM/ICT/IM	Text books, Reference books, PPTs	CO1
24		What is Communism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Rise of Communism	LM/ICT/IM	Text books, Reference books, PPTs	CO2



26		Decline of Communism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Meaning of Colonialism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		Forms of Colonialism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		Features and Nature of Colonialism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		Meaning of Decolonisation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		Theories of Decolonisation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
32		Types of Decolonisation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33		conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO2
34		Partners	LM/ICT/IM	Text books, Reference books, PPTs	CO2
35		Challenges	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
36		Initiatives	LM/ICT/IM	Text books, Reference books, PPTs	CO2
37		Good Governance	LM/ICT/IM	Text books, Reference books, PPTs	CO2
38		Good Governance Index	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>Remedial Class</b>					
39			LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>QUESTION ANSWER DISCUSSION</b>					
40		Principles of SDG	LM/ICT/IM	Text books, Reference books, PPTs	CO2
41	III	Historical context of modern government			

42		Meaning of socialism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
43		Types of socialism	LM/ICT/IM	Text books, PPTs	CO2
44		Growth of socialism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
45		Fabian socialism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
46		Guild socialism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
47		German socialism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
48		Rise of communism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
49		Decline of communism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50		Communism as a ruling ideology	LM/ICT/IM	Text books, Reference books, PPTs	CO2
51		Meaning of colonialism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
52		Decolonization	LM/ICT/IM	Text books, Reference books, PPTs	CO2
53		Context of colonialism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
54		Forms of colonialism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
55		Question answer Discussion	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
56		Communism as a ruling ideology	LM/ICT/IM	Text books, Reference books, PPTs	CO2
57		Guild socialism	LM/ICT/IM	Text books, Reference books, PPTs	CO3

<b>DOUBT CLEAR CLASS</b>					
58		Communism as a ruling ideology	LM/ICT/IM	Text books, Reference books, PPTs	CO3
59		Forms of colonialism	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>QUESTION ANSWER DISCUSSION</b>					
60		Socialism , communism	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	IV	Themes of comparative politics			
61		Salient features of USA constitution	LM/ICT/IM	Text books, Reference books, PPTs	CO3
62		Composition of USA president	LM/ICT/IM	Text books, Reference books, PPTs	CO3
61		Power of president			
63		US congress	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		House of Representatives	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Senate	LM/ICT/IM	Text books, PPTs	CO4
66		Power of Senate	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		Supreme court of US	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		Judicial Review	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		Due process of law	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		Salient features of Chinese constitution	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Composition of NPC	LM/ICT/IM	Text books, Reference books, PPTs	CO4

72		Power and function of NPC	LM/ICT/IM	Text books, Reference books, PPTs	CO4
73		Standing committee of NPC	LM/ICT/IM	Text books, Reference books, PPTs	CO4
74		President of PRC	LM/ICT/IM	Text books, Reference books, PPTs	CO4
75		Premier and State Council	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>REMEDIAL CLASS</b>					
76		Role of Communist party of China	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		Comparative study of US and China Part system			
<b>Doubt clear class</b>					
78		Difference between USA and Indian Upper house	LM/ICT/IM	Text books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>					
79		USA constitution			
80		China constitution			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	C-VI, Introduction to public Administration
Semester	III
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr. Gayatri Kar

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Public administration : Introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Meaning of public administration	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Scope of public administration	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		The POSDCROB view	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Significance of public administration	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Public and private administration	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Evolution of public administration	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Evolution of public administration	LM/ICT/IM	Text books, Reference books, PPTs	CO1

9		Comparative public administration	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Formation of CAG	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Approaches to the public administration	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		Historical approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Case method approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		Legal approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Philosophical approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
16		The POSDCROB view	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Formation of CAG	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		Approaches to the public administration	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
19		Significance of public administration	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Evolution of public administration	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II	Classical theories			
21		Scientific Management	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Basic theme	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Principles of Scientific Management	LM/ICT/IM	Text books, Reference books, PPTs	CO1

24		Techniques	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Taylor's Followers	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Criticism and opposition	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Bureaucratic Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		Rise and Growth	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		Theory of Authority	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		Characteristics of Bureaucracy	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		Critiques of Weber	LM/ICT/IM	Text books, Reference books, PPTs	CO2
32		Administrative Management	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33		Basic Theme of classical theory	LM/ICT/IM	Text books, Reference books, PPTs	CO2

53		Fused Prismatic-Diffracted model			
54		Prismatic-sala model			
55		Innovation and entrepreneurship of Peter Drucker			
<b>REMEDIAL CLASS</b>					

56		Bounded rational model	LM/ICT/IM	Text books, Reference books, PPTs	CO2
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34		Contribution of Fayol	LM/ICT/IM	Text books, Reference books, PPTs	CO2
35		Principles of administration	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
36		Scientific Management theory	LM/ICT/IM	Text books, Reference books, PPTs	CO2
37		criticism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
38		Classical theory	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>Doubt Clear Class</b>					
39			LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>QUESTION ANSWER DISCUSSION</b>					
40		Principles of SDG	LM/ICT/IM	Text books, Reference books, PPTs	CO2
41	III	Neo-classical and Contemporary theories			
42		Human Relation Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO2
43		Hawthorne studies	LM/ICT/IM	Text books, PPTs	CO2
44		Elements of human relation theory	LM/ICT/IM	Text books, Reference books, PPTs	CO2
45		Critical evaluation of human relation theory	LM/ICT/IM	Text books, Reference books, PPTs	CO2
46		Classical vs. human relation theory	LM/ICT/IM	Text books, Reference books, PPTs	CO2
47		Simon's decision-making theory	LM/ICT/IM	Text books, Reference books, PPTs	CO2
48		Factors and stages of decision-making theory	LM/ICT/IM	Text books, Reference books, PPTs	CO2
49		Classification	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50		Simon's Bounded Rationality Model	LM/ICT/IM	Text books, Reference books, PPTs	CO2



51		Riggs Ecological Approach	LM/ICT/IM	Text books, Reference books, PPTs	CO2
52		Agraria-industria model	LM/ICT/IM	Text books, Reference books, PPTs	CO2
57		Howthron studies	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>DOUBT CLEAR CLASS</b>					
58		Bazar canteen model	LM/ICT/IM	Text books, Reference books, PPTs	CO3
59		Revised prismatic Theory	LM/ICT/IM	Text books, Reference books, PPTs	CO3
<b>QUESTION ANSWER DISCUSSION</b>					
60		Human arelation theory, Decision-making theory	LM/ICT/IM	Text books, Reference books, PPTs	CO3
	IV	Public policy and major approach in public administration			
61		Concept of public policy	LM/ICT/IM	Text books, Reference books, PPTs	CO3
62		Approaches of public policy	LM/ICT/IM	Text books, Reference books, PPTs	CO3
61		Formulation of public policy			
63		Implementation of public policy	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Evaluation of public policy	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		New public administration	LM/ICT/IM	Text books, PPTs	CO4
66		New public management	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		New public service approach	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		Good governance	LM/ICT/IM	Text books, Reference books, PPTs	CO4

69		Institutions promoting good governance	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		Principles of good governance	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Good governance index	LM/ICT/IM	Text books, Reference books, PPTs	CO4
72		Feminist perspective of governance	LM/ICT/IM	Text books, Reference books, PPTs	CO4
73		Role of women in governance	LM/ICT/IM	Text books, Reference books, PPTs	CO4
74		Minnowbrook conference	LM/ICT/IM	Text books, Reference books, PPTs	CO4
75		Enterprenurial Government	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>REMEDIAL CLASS</b>					
76		Formulation of Public policy	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		NPA			
<b>Doubt clear class</b>					
78		NPM	LM/ICT/IM	Text books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>					
79		Question of NPA, NPM, good governance			
80		Public policy			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	C-VII, Perspective on International Relations
Semester	III
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr. Srinibas Barik

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Studying International Relations	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Meaning of IR	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Evolution of IR	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Scope of IR	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Emergence of International System	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Meaning of National Interest	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Key Determinants of IR	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Determinants of IR	LM/ICT/IM	Text books, Reference books, PPTs	CO1

9		Types of National Interest	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Purpose and Importance of national interest	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Meaning and nature of power	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		National power	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Kinds of power	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		Dimensions of Power	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Role and uses of power	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
16		Methods of exercising power	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		The Balance of power	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		National Interest	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
19		Evolution of IR	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Difference between IR and international Politics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II	Theoretical Perspectives			
21		Realistic approach	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Classical realism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Neo-realism	LM/ICT/IM	Text books, Reference books, PPTs	CO1

24		Difference between Classical and neo-realism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Liberal traditions of IR	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Liberalism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Neo-liberalism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		Marxist approaches	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		Basic Tenets	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		Four model strategies	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		Critical evaluation of Marxist approach	LM/ICT/IM	Text books, Reference books, PPTs	CO2
32		Feminist Perspectives	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33		Euro-centrism	LM/ICT/IM	Text books, Reference books, PPTs	CO2

53		Phases	LM/ICT/IM	Text books, Reference books, PPTs	CO2
54		Phases	LM/ICT/IM	Text books, Reference books, PPTs	CO2
55		Consequences	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					

		Perspective from the Global South	<b>REMEDIAL CLASS</b>	Text books, Reference	CO2
34		Bolshevik Revolution	LM/ICT/IM	Text books, Reference	CO2
56		A brief discussion on Global south	LM/ICT/IM	Text books, Reference	CO2
35		Fascism	LM/ICT/IM	Text books, Reference	CO2
57			<b>REMEDIAL CLASS</b>	books, PPTs	
36		World war I: Phases	LM/ICT/IM	Text books, Reference	CO2
	<b>Doubt Clear Class</b>	Structural realism	LM/ICT/IM	Text books, Reference	CO2
37		Nazism	LM/ICT/IM	Text books, Reference	CO2
59		Difference between liberalism and neo-liberalism	LM/ICT/IM	Text books, Reference	CO2
38			<b>QUESTION ANSWER DISCUSSION</b>	books, PPTs	
			<b>Doubt Clear Class</b>		
		World war I and World War II	LM/ICT/IM	Text books, Reference	CO2
60		Euro-centrism	LM/ICT/IM	Text books, Reference	CO2
39				books, PPTs	
			<b>QUESTION ANSWER DISCUSSION</b>		
40		Realism, liberalism, Marxist approach	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
41	III	World war: Meaning and Origin			
		Causes	LM/ICT/IM	Text books, Reference	CO2
42				books, PPTs	
43		Causes	LM/ICT/IM	Text books, PPTs	CO2
44		Phases I	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
45		Phase II	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
46		Phase III	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
47		Consequences	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
48		Significance of Bolshevik Revolution	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
49		Fascism	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
50		Nazism	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	

51		World war II: Origin	LM/ICT/IM	Text books, Reference books, PPTs	CO2
52		Causes	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	IV				
61		Cold War	LM/ICT/IM	Text books, Reference books, PPTs	CO3
62		Origin of Cold War	LM/ICT/IM	Text books, Reference books, PPTs	CO3
61		Phases of Cold War: Phase I			
63		Phase: II	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Phase: III	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Phase: IV	LM/ICT/IM	Text books, PPTs	CO4
66		New Cold War	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		New Cold War	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		Disintegration of USSR	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		Disintegration of USSR	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		Events in Cold War	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Emergence of the Third World	LM/ICT/IM	Text books, Reference books, PPTs	CO4
72		History of Developing Nations Classifications	LM/ICT/IM	Text books, Reference books, PPTs	CO4
73		Dividing the World	LM/ICT/IM	Text books, Reference books, PPTs	CO4

74		Nature of the Third World	LM/ICT/IM	Text books, Reference books, PPTs	CO4
75		Role of NAM and Third World during cold war	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>REMEDIAL CLASS</b>					
76		Events in Cold War	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		Disintegration of USSR	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>Doubt clear class</b>					
78		Phase: IV	LM/ICT/IM	Text books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>					
79		Phases of Cold War: Phase I			
80		Phase: II			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)



SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	C-VIII, POLITICAL PROCESS AND INSTITUTIONS IN COMPARATIVE PERSPECTIVES
Semester	IV
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr.Moushumi Pattanaik

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Approaches to Studying Comparative Politics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Political Culture: Meaning	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Political Culture Approaches	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Classification of Political Culture	LM/ICT/IM	Text books, Reference books, PPTs	CO1

5		Almond's Classification	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Verbas Classification	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Verbas Classification	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Finer's Classification	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Finer's Classifications	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Political Culture in Comparative Perspectives	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Critical Appraisal of Political Culture Approaches	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		New Institutionalism: Meaning	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Background	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		Significance	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Significance	LM/ICT/IM	Text books, Reference books, PPTs	CO1
		<b>REMEDIAL CLASS</b>			
16		Verbas Classification	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Political Culture Approaches	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		New Institutionalism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
		<b>DOUBT CLEARING CLASS</b>			
19		Verbas Classification	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Political Culture Approaches	LM/ICT/IM	Text books, Reference books, PPTs	CO1

	II	Election and Party system			
21		Meaning of Party system	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Procedure of Elections System	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Types of Election System	LM/ICT/IM	Text books, Reference books, PPTs	CO1
24		First Past the Post	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Proportional Representation I	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs
26		Proportional Representation II	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs
27		Mixed Representation I	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs
28		Mixed Representation II	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs
29		Meaning of Party System	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs
30		Nature of Party System	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs
31		Evolution of Party System	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs
32		Theories of Party System	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs

33		Nation-Building in Post-Colonial States: From Single Modernity to Multiple Maternities	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs

		<b>REMEDIAL CLASS</b>			
55		Fragmentary Political System in Medieval Europe	LM/ICT/IM	Text books, Reference books, PPTs	CO2
56		Early Foundation in Modern Nation State	LM/ICT/IM	Text books, Reference books, PPTs	CO2
57		Rise of the Modern State and Sovereignty	LM/ICT/IM	Text books, Reference books, PPTs	CO2
		<b>Doubt Clear Class</b>			
58		The Formalisation of Modern Nation States and the Rise of Democracy	LM/ICT/IM	Text books, Reference books, PPTs	CO2
		<b>QUESTION ANSWER DISCUSSION</b>			
59		Nation-Building in Post-Colonial States: From Single Modernity to Multiple Maternities	LM/ICT/IM	Text books, Reference books, PPTs	CO2
53		Early Foundation in Modern Nation State	LM/ICT/IM	Text books, Reference books, PPTs	CO2
54		Fragmentary Political System in Medieval Europe	LM/ICT/IM	Text books, Reference books, PPTs	CO2

34		Types of Party System			
35		Types of Party System			
<b>REMEDIAL CLASS</b>					
36		Evolution of Party System	LM/ICT/IM	Text books, Reference books, PPTs	CO2
37		Proportional Representation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
38		Mixed Representation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>Doubt Clear Class</b>					
39		Theories of Party System	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>QUESTION ANSWER DISCUSSION</b>					
40		Types of Election System	LM/ICT/IM	Text books, Reference books, PPTs	CO2
41	III	Nation- State: Meaning			
42		Objectives	LM/ICT/IM	Text books, Reference books, PPTs	CO2
43		Features	LM/ICT/IM	Text books, PPTs	CO2
44		Fragmentary Political System in Medieval Europe	LM/ICT/IM	Text books, Reference books, PPTs	CO2
45		Early Foundation in Modern Nation State	LM/ICT/IM	Text books, Reference books, PPTs	CO2
46		Rise of the Modern State and Sovereignty	LM/ICT/IM	Text books, Reference books, PPTs	CO2
47		State Sovereignty	LM/ICT/IM	Text books, Reference books, PPTs	CO2
48		Popular Sovereignty	LM/ICT/IM	Text books, Reference books, PPTs	CO2
49		The Formalisation of Modern Nation States and the Rise of Democracy	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50		Nation and State	LM/ICT/IM	Text books, Reference books, PPTs	CO2
51		Debates in Post-Colonial Context	LM/ICT/IM	Text books, Reference books, PPTs	CO2

52		Historical Originality and Nation-Building in Post-Colonial Countries	LM/ICT/IM	Text books, Reference books, PPTs	CO2
60	IV	Democratization in Post-Colonial Societies			
61		Democratisation in Post-authoritarian Countries	LM/ICT/IM	Text books, Reference books, PPTs	CO3
62		Democratisation: Meaning and Concepts	LM/ICT/IM	Text books, Reference books, PPTs	CO3
61		Approaches to Democratisation			
63		Modernisation and Structural approaches	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Transition and Multivariate approaches	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		International Factors	LM/ICT/IM	Text books, PPTs	CO4
66		Factors Hampering Democratisation Process	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		Democratisation in Post-Communist Countries	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		Federalism: Meaning	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		Features	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		Federation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Federation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
72		Debates around Territorial Division of Power	LM/ICT/IM	Text books, Reference books, PPTs	CO4
73		Center- state relation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
74		Administrative Relation	LM/ICT/IM	Text books, Reference books, PPTs	CO4

75		Financial Relation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>REMEDIAL CLASS</b>					
76		Approaches to Democratisation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		Modernisation and Structural approaches	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>					
78		International Factors			
78		Democratisation in Post-authoritarian Countries	LM/ICT/IM	Text books, PPTs	CO4
79		Factors Hampering Democratisation Process			
80		Transition and Multivariate approaches			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	C-IX, PUBLIC POLICY AND ADMINISTRATION IN INDIA
Semester	IV
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr. Gayatri Kar

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Public Policy: Introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Meaning and Definition	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Characteristics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Models: Institutional Model of Public Policy	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Rational Policy Making Model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Lindblom's Incremental Model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Simon's Satisfying Policy Making Model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Option Goal Model	LM/ICT/IM	Text books, Reference books, PPTs	CO1



9		Incremental Model of Decision-Making Model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Mixed Model of Hogwood and Gunn	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Political Public Policy Model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		Public Policy Process in India	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Formulation of Public Policy	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		Implementation of Public Policy	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Evaluation of Public Policy	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
16		Simon's Satisfying Policy Making Model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Incremental Model of Decision-Making Model	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		Mixed Model of Hogwood and Gunn	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
19		Formulation of Public Policy	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Implementation of Public Policy	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II	Decentralization			
21		Decentralization: Meaning	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Evolution of Decentralization	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Approaches	LM/ICT/IM	Text books, Reference books, PPTs	CO1

24		Types of Decentralization	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Advantages of Decentralization	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Disadvantages of Decentralization	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Decentralization in India	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		Decentralization in Rural Area	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		Decentralization in Urban Area	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		Decentralization in Tribal and Scheduled Areas	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		Factors Impending Democratic Decentralization	LM/ICT/IM	Text books, Reference books, PPTs	CO2
32		Defining Local Self Government	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33		Significance of Local Self Government	LM/ICT/IM	Text books, Reference books, PPTs	CO2

53		Food: Right to Security	LM/ICT/IM	Text books, Reference books, PPTs	CO2
54		Employment: MNREGA	LM/ICT/IM	Text books, Reference books, PPTs	CO2
55		MNREGA	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					

34		Defining Urban Self Government	<b>REMEDIAL CLASS</b>		
35		Budget Cycle of Urban Self Government	LM/ICT/IM	Text books, Reference books, PPTs	CO2
56			<b>REMEDIAL CLASS</b>		
57		Concept of Social Welfare	LM/ICT/IM	Text books, Reference books, PPTs	CO2
58		Education: Right to Education	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	<b>Doubt Clear Class</b>	Decentralization in Urban Area	LM/ICT/IM	Text books, Reference books, PPTs	CO2
38		Food: Right to Security	LM/ICT/IM	Text books, Reference books, PPTs	CO2
59			<b>Doubt Clear Class</b>	books, PPTs	
		Significance of Local Self Government	<b>QUESTION ANSWER DISCUSSION</b>	Text books, Reference books, PPTs	CO2
39		Employment: MNREGA	LM/ICT/IM	Text books, Reference books, PPTs	CO2
60			<b>QUESTION ANSWER DISCUSSION</b>	books, PPTs	
40		Significance of Urban Self Government	LM/ICT/IM	Text books, Reference books, PPTs	CO2
41	III	Budget and Social Welfare Administration			
42		Concept of Budget	LM/ICT/IM	Text books, Reference books, PPTs	CO2
43		Significance of Budget	LM/ICT/IM	Text books, PPTs	CO2
44		Budget Cycle in India	LM/ICT/IM	Text books, Reference books, PPTs	CO2
45		Budget Cycle in India	LM/ICT/IM	Text books, Reference books, PPTs	CO2
46		Budget Cycle in India	LM/ICT/IM	Text books, Reference books, PPTs	CO2
47		Types of Budgeting	LM/ICT/IM	Text books, Reference books, PPTs	CO2
48		Types of Budgeting	LM/ICT/IM	Text books, Reference books, PPTs	CO2
49		Concept of Social Welfare	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50		Approaches of Social Welfare	LM/ICT/IM	Text books, Reference books, PPTs	CO2
51		Education: Right to Education	LM/ICT/IM	Text books, Reference books, PPTs	CO2

52		Health: National Health Mission	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	IV				
61		Citizen and Administration Interface	LM/ICT/IM	Text books, Reference books, PPTs	CO3
62		Public Service Delivery System	LM/ICT/IM	Text books, Reference books, PPTs	CO3
61		Characteristics of Public Policy			
63		Types of Public Services	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		New Approach to Delivery of Public Service	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Framework of Relationship in Delivery of Public Policy	LM/ICT/IM	Text books, PPTs	CO4
66		Reforming of Public Service Delivery	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		Examples of Public Policy Delivery	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		Redressal of Public Grievances	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		RTI	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		Objectives	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Salient Features of the RTI Act 2005	LM/ICT/IM	Text books, Reference books, PPTs	CO4
72		Evaluation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
73		Lok Pal	LM/ICT/IM	Text books, Reference books, PPTs	CO4
74		Citizen's Charter	LM/ICT/IM	Text books, Reference books, PPTs	CO4

75		E-GOVERNANCE	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>REMEDIAL CLASS</b>					
76		E-GOVERNANCE	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		New Approach to Delivery of Public Service	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>Doubt clear class</b>					
78		Public Service Delivery System	LM/ICT/IM	Text books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>					
79		Citizen's Charter			
80		E-GOVERNANCE			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	C-X, GLOBAL POLITICS
Semester	IV
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr. Srinibas Barik

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Globalization: Meaning	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Globalization: Concept	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Non-Proliferation Regimes	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Why India Never Signed the Treaty	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		What are the Draw Backs of the Treaty	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Issues with Non-Proliferation Treaty	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Global Economy: Its Significance	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		IMF: Formation	LM/ICT/IM	Text books, Reference books, PPTs	CO1

9		Organizational Structure of IMF	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Formation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Objectives, India & IMF	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		World Bank	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		World Bank Membership	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		WTO: Objectives	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Organization	LM/ICT/IM	Text books, Reference books, PPTs	CO1
		<b>REMEDIAL CLASS</b>			
16		TNCs	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		World Bank Membership	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		Issues with Non-Proliferation Treaty	LM/ICT/IM	Text books, Reference books, PPTs	CO1
		<b>DOUBT CLEARING CLASS</b>			
19		What are the Draw Backs of the Treaty	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		World Bank	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II	Globalization Perspectives			
21		Political Debates on Sovereignty and Territoriality	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Cultural and Technological Dimensions	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Cultural Dimension of Globalization	LM/ICT/IM	Text books, Reference books, PPTs	CO1

24		Technical Dimension of Globalization	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Impacts of Globalization on Culture with Technological Development	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Global Resistance	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Resistance Movements: Types of Social Movements	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		Social Movements and NGOs	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		Ecological Issues	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		International Environmental Agreement I	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		International Environment Agreement II	LM/ICT/IM	Text books, Reference books, PPTs	CO2
51		Rural Terrorism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
52		Fighting Global Terrorism	LM/ICT/IM	Text books, Reference books, PPTs	CO2

58		International Terrorism	LM/ICT/IM	LM/ICT/IM	CO2
59		Proliferation of Nuclear Weapons	LM/ICT/IM	LM/ICT/IM	CO2
60		Genesis	LM/ICT/IM	LM/ICT/IM	CO2
<b>REMEDIAL CLASS</b>					

61	IV	Contemporary Global Issues II	LM/ICT/IM	Text books, Reference books, PPTs	CO3
62		Migration: Significance and Concept	LM/ICT/IM	Text books, Reference books, PPTs	CO3



		Climate Change I	<b>REMEDIAL CLASS</b>	Text books, Reference	CO2
32		Non-state actors	LM/ICT/IM	Text books, Reference	CO2
53		Climate Change II	LM/ICT/IM	Text books, Reference	CO2
33		Post 9/11 Development	LM/ICT/IM	Text books, Reference	CO2
54			<b>REMEDIAL CLASS</b>	books, PPTs	
34		Issues with Non-Proliferation Treaty II	LM/ICT/IM	Text books, Reference books, PPTs	CO2
	<b>Doubt Clear Class</b>	Climate Change I	LM/ICT/IM	Text books, Reference	CO2
35		Types of International Terrorism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
56		Social Movements and NGOs	LM/ICT/IM	Text books, Reference books, PPTs	CO2
36				books, PPTs	
			<b>Doubt Clear Class</b>		
		Fighting Global Terrorism	LM/ICT/IM	Text books, Reference	CO2
57		Technical Dimension of Globalization	LM/ICT/IM	Text books, Reference books, PPTs	CO2
37				books, PPTs	
		<b>QUESTION ANSWER DISCUSSION</b>			
38		Impacts of Globalization on Culture with Technological Development	LM/ICT/IM	Text books, Reference books, PPTs	CO2
39	III	CONTEMPORARY GLOBAL ISSUES-I			
40		Proliferation of Nuclear Weapons		Text books, Reference books, PPTs	CO2
41		Objectives and Issues	LM/ICT/IM	Text books, PPTs	CO2
42		Members and Drawbacks	LM/ICT/IM	Text books, Reference books, PPTs	CO2
43		Why India never signed the treaty?	LM/ICT/IM	Text books, Reference books, PPTs	CO2
44		Issues with Non-Proliferation Treaty	LM/ICT/IM	Text books, Reference books, PPTs	CO2
45		Issues with non-proliferation treaty	LM/ICT/IM	Text books, Reference books, PPTs	CO2
46		International Terrorism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
47		Genesis	LM/ICT/IM	Text books, Reference books, PPTs	CO2
48		Nature of International Terrorism	LM/ICT/IM	Text books, Reference books, PPTs	CO2

49		Types of International Terrorism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50		Urban Terrorism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
61		Forms			
63		Characteristics	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Reason for Migration	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Consequences of Migration	LM/ICT/IM	Text books, PPTs	CO4
66		Problems of Refugees and Displaced Person	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		Migration Policies	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		Human Security: Introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		The evolution of the concept Human Security	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		Human Security and Traditional Security	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Transition from Nuclear Security to Human Security	LM/ICT/IM	Text books, Reference books, PPTs	CO4
72		Criticism of Human Security	LM/ICT/IM	Text books, Reference books, PPTs	CO4
73		Global Shift: Power and Governance	LM/ICT/IM	Text books, Reference books, PPTs	CO4
74		Concept of Power	LM/ICT/IM	Text books, Reference books, PPTs	CO4
75		Concepts of Governance	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>REMEDIAL CLASS</b>					

76		The evolution of the concept Human Security	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		Global Shift: Power and Governance	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>Doubt clear class</b>					
78		Forms of Migration	LM/ICT/IM	Text books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>					
79		Concept of Power			
80		Concepts of Governance			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN’S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	C-XI, Western Political Philosophy
Semester	V

No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr. Moushumi Pattanaik

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Plato: General Introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Methodology of Plato	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Nature of Platonic Justice	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Theory of Justice	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Communism of Wives	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Communism of Property	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Distinction between Plato's communism and Modern communism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Plato's theory of education	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Stages of Education	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Critical analysis of Plato	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Aristotle: citizenship	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		Concept of justice	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Search for a stable constitution	LM/ICT/IM	Text books, Reference books, PPTs	CO1

14		Concept of mixed constitution	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Causes of Revolution	LM/ICT/IM	Text books, Reference books, PPTs	CO1
		<b>REMEDIAL CLASS</b>			
16		Platonic Theory of justice	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Virtue meaning according to Plato	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		Second best state	LM/ICT/IM	Text books, Reference books, PPTs	CO1
		<b>DOUBT CLEARING CLASS</b>			
19		Stages of Plato's education	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Aristotle theory of justice	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II				
21		Machiavelli: Introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Method of Machiavelli	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Separation of politics and ethics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
24		Machiavelli as a child of Renaissance	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Statecraft	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs
26		Advice to the Prince	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs
27		Religion role in state affairs	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs

28		Hobbes: introduction	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs
29		Analysis of human nature	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs
30		State of nature	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs
31		Social contract	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs
51		Social contact	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs
52		General will	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books, PPTs

58		Question answer of Locke	LM/ICT/IM	Text books, Reference books, PPTs	CO2
59		Rousseau	LM/ICT/IM	Text books, Reference books, PPTs	CO2
60		Popular Sovereignty	LM/ICT/IM	Text books, Reference books, PPTs	CO2

61	IV	J.S.Mill: introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO2
62		Revision of Utilitarianism	LM/ICT/IM	Text books, Reference books, PPTs	CO3

		Sovereign	<b>REMEDIAL CLASS</b>	Text books, Reference	Text books,
32		Difference between real will and particular will	LM/ICT/IM	Text books, Reference books, PPTs	Reference books, PPTs
54		Critical analysis of Hobbes	LM/ICT/IM	Text books, Reference books, PPTs	Text books, Reference books,
33		Nature of general will	LM/ICT/IM	Text books, Reference books, PPTs	CO2
55		Social contract theory	LM/ICT/IM	Text books, Reference books, PPTs	
			<b>REMEDIAL CLASS</b>		
	<b>Doubt Clear Class</b>	Individualism of Hobbes	LM/ICT/IM	Text books, Reference books, PPTs	CO2
34		General will	LM/ICT/IM	Text books, Reference books, PPTs	CO2
56		Nature of Sovereign	LM/ICT/IM	Text books, Reference books, PPTs	CO2
35					
		Absolute sovereignty	LM/ICT/IM	Text books, Reference books, PPTs	CO2
36		Critical analysis of Rousseau	LM/ICT/IM	Text books, Reference books, PPTs	CO2
57					
			<b>Doubt Clear Class</b>		
37		Social contact theory	LM/ICT/IM	Text books, Reference books, PPTs	CO2
			<b>QUESTION ANSWER DISCUSSION</b>		
38		Machiavelli and Hobbes	LM/ICT/IM	Text books, Reference books, PPTs	CO2
39	III				
40		John Locke : introduction		Text books, Reference books, PPTs	CO2
41		Human Nature of Locke	LM/ICT/IM	Text books, PPTs	CO2
42		State of nature	LM/ICT/IM	Text books, Reference books, PPTs	CO2
43		Social contact	LM/ICT/IM	Text books, Reference books, PPTs	CO2
44		Soverign	LM/ICT/IM	Text books, Reference books, PPTs	CO2
45		Natural Rights of man	LM/ICT/IM	Text books, Reference books, PPTs	CO2
46		Locke as father of Liberalism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
47		Justification of right to property	LM/ICT/IM	Text books, Reference books, PPTs	CO2

48		Rousseau	LM/ICT/IM	Text books, Reference books, PPTs	CO2
49		Analysis of Inequalities	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50		Analysis of Human nature	LM/ICT/IM	Text books, Reference books, PPTs	CO2
61		Mill views on Liberty			
63		Harm Principles	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Self regarding and other regarding action	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Views on Democracy	LM/ICT/IM	Text books, PPTs	CO4
66		Mill as Reluctant Democrat	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		Subjugation of Women	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		Karl Marx: introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		Marxism	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		Dialectical Materialism	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Historical Materialism	LM/ICT/IM	Text books, Reference books, PPTs	CO4
72		Theory of Revolution	LM/ICT/IM	Text books, Reference books, PPTs	CO4
73		Doctrine of Class Conflict	LM/ICT/IM	Text books, Reference books, PPTs	CO4
74		Concept of Surplus Value	LM/ICT/IM	Text books, Reference books, PPTs	CO4



75		Concept of Freedom	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>REMEDIAL CLASS</b>					
76		Role of Private property	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		Critical Appraisal	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>Doubt clear class</b>					
78		Dialectical materialism	LM/ICT/IM	Text books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>					
79		Karl marx			
80		J.S Mill			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
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Course Name	C-XII, Indian Political Thought
Semester	V
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr. Gayatri Kar

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Traditions of Pre-colonial Indian Political Thought	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Brahminic Tradition	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Vedas as Sources of Knowledge	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Brahma and Kshatriya	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Four Pursuit of Life	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Varna	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Ashram	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Duties and Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Danda	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Political Thought in Shamanic Scripture	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Islamic Tradition	LM/ICT/IM	Text books, Reference books, PPTs	CO1

12		Modern Age Religion	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Traditions of Mysticism and Syncretism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		Sufi Tradition	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Bhakti Tradition	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
16		Four Pursuit of Life	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Islamic Tradition	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		Political Thought in Shamanic Scripture	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
19		Sufi and Bhakti Tradition	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Modern Age Religion	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II				
21		Veda Vyasa: Raja dharma	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Vyas and Mahabharat	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Origin of State	LM/ICT/IM	Text books, Reference books, PPTs	CO1
24		Kinship	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Government	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2

27		Dandaniti	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		Inter-State Relation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		Manu: Social Laws	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		Sources of Laws	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		Raj dharma: Duties of King	LM/ICT/IM	Text books, Reference books, PPTs	CO2
51		Social Laws	LM/ICT/IM	Text books, Reference books, PPTs	CO2
52		Marriage	LM/ICT/IM	Text books, Reference books, PPTs	CO2

58		Buddhist Ideas on the Constituents of State	LM/ICT/IM	Text books, Reference books, PPTs	CO2
59		Barani : Ideal Polity	LM/ICT/IM	Text books, Reference books, PPTs	CO2
60		Theory of Kingship	LM/ICT/IM	Text books, Reference books, PPTs	CO2

61	IV	Kabir	LM/ICT/IM	Text books, Reference books, PPTs	CO2
62		Introduction of Kabir	LM/ICT/IM	Text books, Reference books, PPTs	CO3
61		Life and Work	LM/ICT/IM	Text books, Reference books, PPTs	CO3
63		Syncretism-I	LM/ICT/IM	Text books, Reference books, PPTs	CO3

		Women	<b>REMEDIAL CLASS</b>	Text books, Reference	CO2
32		The Ideal Ruler of Barani	LM/ICT/IM	Text books, Reference	CO2
53		Criticism	LM/ICT/IM	Text books, Reference	CO2
33		Despotic Kingship at the time of the Buddha	LM/ICT/IM	Text books, Reference	CO2
54			<b>REMEDIAL CLASS</b>	books, PPTs	
34		Misc of Justice	LM/ICT/IM	Text books, Reference	CO2
	<b>Doubt Clear Class</b>	Government	LM/ICT/IM	Text books, Reference	CO2
35		Normative Kingship	LM/ICT/IM	Text books, Reference	CO2
56		Vyas and Mahabharat	LM/ICT/IM	Text books, Reference	CO2
36				books, PPTs	
			<b>Doubt Clear Class</b>		
		Cosmic theory of Origin of Life	LM/ICT/IM	Text books, Reference	CO2
57		Origin of State	LM/ICT/IM	Text books, Reference	CO2
37				books, PPTs	
			<b>QUESTION ANSWER DISCUSSION</b>		
38		Inter-State Relation	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
39	III	Kautilya			
40		Arthasastra and Element of State	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
41		Concept of Government	LM/ICT/IM	Text books, PPTs	CO2
42		Duties of king	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
43		Council of Ministers	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
44		Danda and Justice	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
45		Espionage System	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
46		Concept of Foreign Policy	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
47		Criticism	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
48		Agganasutta: Theory of Kingship	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	

49		Cosmic theory of Origin of Life	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50		Origin of the State	LM/ICT/IM	Text books, Reference books, PPTs	CO2
64		Syncretism-II	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Abul Fazl: Introduction	LM/ICT/IM	Text books, PPTs	CO4
66		Life and Works	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		Monarchy-I	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		King and his Duty	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		Administrative Duty	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		Conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71					
72					
73					
74					
75					
<b>REMEDIAL CLASS</b>					
76		Monarchy-I	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		Syncretism	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>Doubt clear class</b>					
78			LM/ICT/IM	Text books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>					
79		Life and Work			
80		Administrative Duty			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	C-XIII
Semester	VI
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr.Moushumi Pattanaik

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Lenin	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Introduction	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Early Life	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Revolutionary activity-I	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Revolutionary activity	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Political Ideology	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Political Ideology	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Lenin's Government	LM/ICT/IM	Text books, Reference books, PPTs	CO1



9		Personal Life and Characteristics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Lenin and Marx	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Lenin and Neo-marxism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		Formation of Revolutionary party of Lenin	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Bolshevik Revolution	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		Communism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Death and Funeral:1923-1924	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
16		Political Ideology	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Revolutionary activity-I	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		Lenin and Marx	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
19		Lenin's Government	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Formation of Revolutionary party of Lenin	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II	Mao Zedong			
21		Early Life	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Early Revolutionary activity	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Civil war	LM/ICT/IM	Text books, Reference books, PPTs	CO1

24		Leadership of China	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		State Visits	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		The Communists and the Nationalists	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		The road to power of Mao Zedong	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		Formation of the People's Republic of China of Mao	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		The emergence of Mao's road to Socialism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		The cultural revolution of Mao	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		Great Leap Forward	LM/ICT/IM	Text books, Reference books, PPTs	CO2
51		Nnchang and Autumn Harvest Uprisings:1927	LM/ICT/IM	Text books, Reference books, PPTs	CO2
52		Alliance with Kuomintang:1935	LM/ICT/IM	Text books, Reference books, PPTs	CO2

58		The Philosophy of praxis	LM/ICT/IM	Text books, Reference books, PPTs	CO2
59		The Modern Prince	LM/ICT/IM	Text books, Reference books, PPTs	CO2
60		State and Civil Society	LM/ICT/IM	Text books, Reference books, PPTs	CO2

61	IV	John Rawls	LM/ICT/IM	Text books, Reference books, PPTs	CO2
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		Social Reforms	<b>REMEDIAL CLASS</b>	Text books, Reference	CO2
32		Hegemony	LM/ICT/IM	Text books, Reference	CO2
53		Death and Aftermath	LM/ICT/IM	Text books, Reference	CO2
33		Intellectuals and education	LM/ICT/IM	Text books, Reference	CO2
54			<b>REMEDIAL CLASS</b>	books, PPTs	
<del>34</del>		State and Civil Society, the Nationalists	LM/ICT/IM	Text books, Reference	CO2
	<b>Doubt Clear Class</b>	State Visits	LM/ICT/IM	Text books, Reference	CO2
35		Intellectuals and education	LM/ICT/IM	Text books, Reference	CO2
56		The road to power of Mao Zedong	LM/ICT/IM	Text books, Reference	CO2
36				books, PPTs	
			<b>Doubt Clear Class</b>		
		Historicism	LM/ICT/IM	Text books, Reference	CO2
57		Social Reforms	LM/ICT/IM	Text books, Reference	CO2
37				books, PPTs	
			<b>QUESTION ANSWER DISCUSSION</b>		
38		Great Leap Forward	LM/ICT/IM	Text books, Reference books, PPTs	CO2
39	III	Antonio Gramsci			
40		Life	LM/ICT/IM	Text books, Reference books, PPTs	CO2
41		Philosophical work	LM/ICT/IM	Text books, PPTs	CO2
42		Hegemony	LM/ICT/IM	Text books, Reference books, PPTs	CO2
43		Intellectuals and education	LM/ICT/IM	Text books, Reference books, PPTs	CO2
44		State and Civil Society	LM/ICT/IM	Text books, Reference books, PPTs	CO2
45		Historicism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
46		Critique of economic	LM/ICT/IM	Text books, Reference books, PPTs	CO2
47		Critique of Materialism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
48		The Philosophy of praxis	LM/ICT/IM	Text books, Reference books, PPTs	CO2

49		The Modern Prince	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50		Criticism and conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO2
62		Early life and work	LM/ICT/IM	Text books, Reference books, PPTs	CO3
61		Philosophical Thought	LM/ICT/IM	Text books, Reference books, PPTs	CO3
63		Influence and Reception	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Principle of Justice	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Original Position	LM/ICT/IM	Text books, PPTs	CO4
66		Veil of Ignorance	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		Distributive justice	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		Kantian Influence	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		Reflective Equilibrium	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		The Conditions and Purpose of original position	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Just Institution			
72		Communitarians criticism			
73		Feminist criticism			
74		Reflective Equilibrium			
75		Reflective Equilibrium			
<b>REMEDIAL CLASS</b>					
76		Lexical Order	LM/ICT/IM	Text books, Reference books, PPTs	CO4

77		The Conditions and Purpose of original position			
		<b>Doubt clear class</b>			
78		Kantian Influence	LM/ICT/IM	Text books, PPTs	CO4
		<b>QUESTION ANSWER DISCUSSION</b>			
79		Original Position			
80		Distributive justice			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	C-XIV , Modern Indian Political Thought
Semester	VI
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr.Gayatri Kar

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Raja Rammohan Roy	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Early Life and Work	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		Reforms Movement	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Liberalism	LM/ICT/IM	Text books, Reference books, PPTs	CO1

6		Ramabai	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Gender	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Critique of Orthodoxy	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Vivekananda	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		c	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Humanism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		Nationalism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Internationalism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		criticism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
16		Rigts	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Gender	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		Critique of Orthodoxy	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
19		Critique of Orthodoxy	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Nationalism	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II	Gandhi and Ambedkar			

21		Gandhi	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Life and Work	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Civil Rights Activist in South Africa	LM/ICT/IM	Text books, Reference books, PPTs	CO1
24		Struggle for Indian independence	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Principles, Practice and Believe	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Swaraj-I	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Swaraj-II	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		Swaraj-III	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		Swadeshi-I	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		Swadeshi-II	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		Swadeshi-III	LM/ICT/IM	Text books, Reference books, PPTs	CO2
51		Criticism and Conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO2
52		Ambedkar	LM/ICT/IM	Text books, Reference books, PPTs	CO2

58			LM/ICT/IM	Text books, Reference books, PPTs	CO2
59		Hindutva	LM/ICT/IM	Text books, Reference books, PPTs	CO2



32		Life and Work	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33		Social justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
34		Principles, Practice and Believe	LM/ICT/IM	Text books, Reference books, PPTs	CO2
35		Swaraj-I	LM/ICT/IM	Text books, Reference books, PPTs	CO2
36		Swadeshi-I	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>Doubt Clear Class</b>					
37		Principles, Practice and Believe	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>QUESTION ANSWER DISCUSSION</b>					
38		Social justice	LM/ICT/IM	Text books, Reference books, PPTs	CO2
39	III	Tagore and Savarkar			
40		Tagore- Life and Event	LM/ICT/IM	Text books, Reference books, PPTs	CO2
41		Works	LM/ICT/IM	Text books, PPTs	CO2
42		Politics	LM/ICT/IM	Text books, Reference books, PPTs	CO2
43		Santiniketan and Visva Bharati	LM/ICT/IM	Text books, Reference books, PPTs	CO2
44		Nationalism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
45		criticism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
46		Savarkar: Life and Career	LM/ICT/IM	Text books, Reference books, PPTs	CO2
47		Religious view	LM/ICT/IM	Text books, Reference books, PPTs	CO2
48		Political View	LM/ICT/IM	Text books, Reference books, PPTs	CO2

49		Hindutva	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50		Works and Conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>REMEDIAL CLASS</b>					
53		Nationalism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
54		Hindutva	LM/ICT/IM	Text books, Reference books, PPTs	CO2
55		Political View	LM/ICT/IM	Text books, Reference books, PPTs	CO2
<b>Doubt Clear Class</b>					
56		Nationalism	LM/ICT/IM	Text books, Reference books, PPTs	CO2
57		Religious view	LM/ICT/IM	Text books, Reference books, PPTs	CO2
60		Santiniketan and Visva Bharati	LM/ICT/IM	Text books, Reference books, PPTs	CO2

61	IV	Nehru, Lohia and J.P. Narayan	LM/ICT/IM	Text books, Reference books, PPTs	CO2
62		Nehru: Life and Work	LM/ICT/IM	Text books, Reference books, PPTs	CO3
61		Nationalist Movement	LM/ICT/IM	Text books, Reference books, PPTs	CO3
63		Vision Governing Policies	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Secularism	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Socialism	LM/ICT/IM	Text books, PPTs	CO4

66	Religion and Personal Believe	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67	Nehru as Prime Minister of India	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68	Criticism and Conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69	Lohia	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70	Lohia Life and Work	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71	Socialism--I			
72	Socialism-II			
73	J.P Narayan: Life and Work			
74	Total Revolution			
75	Total Revolution-II-I			
<b>REMEDIAL CLASS</b>				
76	Secularism	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77	Vision Governing Policies			
<b>Doubt clear class</b>				
78	Total Revolution	LM/ICT/IM	Text books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>				
79	Secularism			
80	Socialism--I			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM –Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	DSE-1, INTRODUCTION TO HUMAN RIGHTS

Semester	VI
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr. Gayatri Kar

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Understanding Human Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		History	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Protection at the international level	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		1 <sup>st</sup> Generation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		2 <sup>nd</sup> Generation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		3 <sup>rd</sup> Generation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Origin	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Nature of Human Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Legitimacy and priority	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		The relevance of custom and tradition	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		International human rights	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		Human rights in the UN	LM/ICT/IM	Text books, Reference books, PPTs	CO1

13		How can Human rights exist	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		Which Rights are Human Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Environmental Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>REMEDIAL CLASS</b>					
16		Protection at the international level	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Legitimacy and priority	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		The relevance of custom and tradition	LM/ICT/IM	Text books, Reference books, PPTs	CO1
<b>DOUBT CLEARING CLASS</b>					
19		Human rights in the UN	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Environmental Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II				
21		Universal Declaration OF Human Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		Structure and legal implications	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Preambles	LM/ICT/IM	Text books, Reference books, PPTs	CO1
24		The Articles	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		History	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Procedure to the Declaration	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Legal effect	LM/ICT/IM	Text books, Reference books, PPTs	CO2

28		How can Human rights exist	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		Protection at the international level	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		The relevance of custom and tradition	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		Preamble Revision	LM/ICT/IM	Text books, Reference books, PPTs	CO2
32		Human rights in the UN	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33		Environmental Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2

58		Sexual and LGBT Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
59		International Treaties	LM/ICT/IM	Text books, Reference books, PPTs	CO2
60		Welfare and Health	LM/ICT/IM	Text books, Reference books, PPTs	CO2

61	IV	International Refugee Law	LM/ICT/IM	Text books, Reference books, PPTs	CO2
62		History	LM/ICT/IM	Text books, Reference books, PPTs	CO3
61		Principle	LM/ICT/IM	Text books, Reference books, PPTs	CO3
63		Human rights and refugee law	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Refugee status determination	LM/ICT/IM	Text books, Reference books, PPTs	CO4

		Protection at the international level	<b>REMEDIAL CLASS</b>	Text books, Reference	CO2
34		Apartheid era	LM/ICT/IM	<del>Text books, Reference</del> Text books, PPTs, Reference	CO2
53		International human rights	LM/ICT/IM	<del>Text books, Reference</del> Text books, PPTs, Reference	CO2
35		Human rights in India-I	LM/ICT/IM	<del>Text books, Reference</del> Text books, PPTs, Reference	CO2
54			<b>REMEDIAL CLASS</b>	books, PPTs	
<del>36</del>		Human rights in India-II	LM/ICT/IM	<del>Text books, Reference</del> Text books, PPTs	<del>CO2</del>
	<b>Doubt Clear Class</b>	2 <sup>nd</sup> Generation	LM/ICT/IM	Text books, Reference	CO2
37		Labour Rights	LM/ICT/IM	books, PPTs	CO2
		Procedure to the Declaration	LM/ICT/IM	Text books, Reference	CO2
38				books, PPTs	
		<b>Doubt Clear Class</b>			
<del>39</del>		Political Rights	LM/ICT/IM	<del>Text books, Reference</del> books, PPTs	<del>CO2</del>
		<b>QUESTION ANSWER DISCUSSION</b>			
40		2 <sup>nd</sup> Generation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
41	III	Rights in National Constitution			
		Human rights in south Africa	LM/ICT/IM	Text books, Reference books, PPTs	CO2
42					
43		Apartheid era	LM/ICT/IM	Text books, PPTs	CO2
		Educational rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
44					
45		Political Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
		Welfare and Health	LM/ICT/IM	Text books, Reference books, PPTs	CO2
46					
47		Sexual and LGBT Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
		Labour Rights	LM/ICT/IM	Text books, Reference books, PPTs	CO2
48					
49		International Treaties	LM/ICT/IM	Text books, Reference books, PPTs	CO2
		Conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50					



51		Human rights in India-I	LM/ICT/IM	Text books, Reference books, PPTs	CO2
52		Human rights in India-II	LM/ICT/IM	Text books, Reference books, PPTs	CO2
65		Conclusion	LM/ICT/IM	Text books, PPTs	CO4
66		What is International humanitarian law	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		When does international humanitarian law apply	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		International conflicts	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		Laws and its Protection	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		Specific Protection	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Challenges			
72		International legislation on refugee law			
73		1967 protocol			
74		1948 UDHR			
75		Geneva conventions of 1949			
<b>REMEDIAL CLASS</b>					
76		Refugee status determination	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		Human rights and refugee law			
<b>Doubt clear class</b>					
78		Refugee status determination	LM/ICT/IM	Text books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>					
79		What is International humanitarian law			
80		1967 protocol			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	DSE-1I, Development Process and Social Movement
Semester	VI
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr. Srinibas Barik

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	Welfare State	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Development	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		Five year plan	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> five year plan	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> ,7 <sup>th</sup>	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		8 <sup>th</sup> ,9 <sup>th</sup> ,10 <sup>th</sup> ,11 <sup>th</sup> ,12 <sup>th</sup>	LM/ICT/IM	Text books, Reference books, PPTs	CO1
7		Role of Planning Commission	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Composition and Function of Planning Commission	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		What is Welfare state	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		What is Development	LM/ICT/IM	Text books, Reference books, PPTs	CO1

11		What is Liberalization Reforms-I	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		What is Liberalization Reforms-II	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		What is Privatization	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		What is Globalisation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Criticism and Conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO1
16		1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> five-year plan	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Welfare State	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		8 <sup>th</sup> ,9 <sup>th</sup> ,10 <sup>th</sup> ,11 <sup>th</sup> ,12 <sup>th</sup>	LM/ICT/IM	Text books, Reference books, PPTs	CO1
		<b>DOUBT CLEARING CLASS</b>			
19		What is Liberalization Reforms-I	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Role of Planning Commission	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II				
21		What is Industrial Development	LM/ICT/IM	Text books, Reference books, PPTs	CO1
22		History	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Characteristics	LM/ICT/IM	Text books, Reference books, PPTs	CO1
24		Organized Labour	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Un organized Labour	LM/ICT/IM	Text books, Reference books, PPTs	CO2

26		Agricultural development-I	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Agricultural development-II	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		Agrarian Crisis-I	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		Agrarian Crisis-II	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		Agrarian Crisis-III	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		Land Reform-I	LM/ICT/IM	Text books, Reference books, PPTs	CO2
32		Land Reform-I	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33		Land Reform-III	LM/ICT/IM	Text books, Reference books, PPTs	CO2

58		Mass mobilisation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
59		Womens Movement	LM/ICT/IM	Text books, Reference books, PPTs	CO2
60		Environmental Movement	LM/ICT/IM	Text books, Reference books, PPTs	CO2

61	IV	DALIT movement	LM/ICT/IM	Text books, Reference books, PPTs	CO2
62		Issues	LM/ICT/IM	Text books, Reference books, PPTs	CO3
61		Typologies	LM/ICT/IM	Text books, Reference books, PPTs	CO3

		Green Revolution-I	<b>REMEDIAL CLASS</b>	Text books, Reference	CO2
34		Mass mobilisation	LM/ICT/IM	Text books, Reference	CO2
53		Green Revolution-II	LM/ICT/IM	Text books, Reference	CO2
35		types	LM/ICT/IM	Text books, Reference	CO2
54			<b>REMEDIAL CLASS</b>	books, PPTs	
36		the organized Labour	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
		Agrarian Crisis-III	<b>Doubt Clear Class</b>	Text books, Reference	CO2
37		theories	LM/ICT/IM	Text books, Reference	CO2
56		Agricultural development-II	LM/ICT/IM	Text books, Reference	CO2
38				books, PPTs	
		New Social Movement	<b>Doubt Clear Class</b>	Text books, Reference	CO2
57		Land Reform-I	LM/ICT/IM	Text books, Reference	CO2
39				books, PPTs	
			<b>QUESTION ANSWER DISCUSSION</b>		
40		Land Reform-II	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
41	III	Social Movements			
42		Meaning and Approaches	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
43		History	LM/ICT/IM	Text books, PPTs	CO2
44		Mass mobilisation	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
45		Types	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
46		Theories	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
47		Social Networking	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
48		New Social Movement	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
49		Womens Movement	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	
50		Womens Movement	LM/ICT/IM	Text books, Reference	CO2
				books, PPTs	

51		Environmental Movement	LM/ICT/IM	Text books, Reference books, PPTs	CO2
52		Environmental Movement	LM/ICT/IM	Text books, Reference books, PPTs	CO2
63		Challenges	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Changes Economic Condition	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Dalit Panther Movement	LM/ICT/IM	Text books, PPTs	CO4
66		Organization and Leadership	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		Tribal Movement	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		Left wing Extremism: Issues	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		Challenges	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		Typologies	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Causes of Movement	LM/ICT/IM	Text books, Reference books, PPTs	CO4
72		Characteristics	LM/ICT/IM	Text books, Reference books, PPTs	CO4
73		Types	LM/ICT/IM	Text books, Reference books, PPTs	CO4
74		Theories	LM/ICT/IM	Text books, Reference books, PPTs	CO4
75		Conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO4
		<b>REMEDIAL CLASS</b>			
76		Left wing Extremism: Issues	LM/ICT/IM	Text books, Reference books, PPTs	CO4

77		Challenges			
		<b>Doubt clear class</b>			
78		Tribal Movement	LM/ICT/IM	Text books, PPTs	CO4
		<b>QUESTION ANSWER DISCUSSION</b>			
79		Dalit Panther Movement			
80		Theories of Movement			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)



SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

TEACHING PLAN 2022-23

Department	POLITICAL SCIENCE
Course Name	DSE-III, INDIA'S FOREIGN POLICY IN A CHANGING WORLD
Semester	VI
No of Weeks	11
No of Periods/week	5
Teacher's Name	Dr. Srinibas Barik

Total No. of periods: 60 (Theory) + 15(Remedial Class) +5 (Doubt clear class) = 80

Period	Unit	Topics	Method of Teaching (LM/ICT/IM/DM)	Source of Teaching Materials	Corresponding COs
1	I	India's Foreign Policy- History	LM/ICT/IM	Text books, Reference books, PPTs	CO1
2		Nehruvian Era	LM/ICT/IM	Text books, Reference books, PPTs	CO1
3		PM Indira Gandhi Era	LM/ICT/IM	Text books, Reference books, PPTs	CO1
4		PM Narendra Modi Era	LM/ICT/IM	Text books, Reference books, PPTs	CO1
5		Major Bases-1	LM/ICT/IM	Text books, Reference books, PPTs	CO1
6		Major Bases-2	LM/ICT/IM	Text books, Reference books, PPTs	CO1

7		Major Bases-3	LM/ICT/IM	Text books, Reference books, PPTs	CO1
8		Determinants-1	LM/ICT/IM	Text books, Reference books, PPTs	CO1
9		Determinants-2	LM/ICT/IM	Text books, Reference books, PPTs	CO1
10		Relevance	LM/ICT/IM	Text books, Reference books, PPTs	CO1
11		Post-Colonial Perspective-1	LM/ICT/IM	Text books, Reference books, PPTs	CO1
12		Post-Colonial Perspective-2	LM/ICT/IM	Text books, Reference books, PPTs	CO1
13		Post-Colonial Perspective-3	LM/ICT/IM	Text books, Reference books, PPTs	CO1
14		Post-Colonial Perspective-4	LM/ICT/IM	Text books, Reference books, PPTs	CO1
15		Criticism and Conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO1
16		PM Indira Gandhi Era	LM/ICT/IM	Text books, Reference books, PPTs	CO1
17		Major Bases-1	LM/ICT/IM	Text books, Reference books, PPTs	CO1
18		Relevance	LM/ICT/IM	Text books, Reference books, PPTs	CO1
		<b>DOUBT CLEARING CLASS</b>			
19		Nehruvian Era	LM/ICT/IM	Text books, Reference books, PPTs	CO1
20		Determinants-1	LM/ICT/IM	Text books, Reference books, PPTs	CO1
	II	India's Relation with USA and RUSSIA			
21		History	LM/ICT/IM	Text books, Reference books, PPTs	CO1

22		Military Relation with USA	LM/ICT/IM	Text books, Reference books, PPTs	CO1
23		Nuclear Cooperation	LM/ICT/IM	Text books, Reference books, PPTs	CO1
24		Economic Cooperation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
25		Indo-US Strategic Partnership	LM/ICT/IM	Text books, Reference books, PPTs	CO2
26		Tension	LM/ICT/IM	Text books, Reference books, PPTs	CO2
27		Conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO2
28		India's Relation With Russia	LM/ICT/IM	Text books, Reference books, PPTs	CO2
29		History	LM/ICT/IM	Text books, Reference books, PPTs	CO2
30		Military Relation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
31		Economic Relation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
32		Science and Technology	LM/ICT/IM	Text books, Reference books, PPTs	CO2
33		Cultural Cooperation	LM/ICT/IM	Text books, Reference books, PPTs	CO2

58		Water sharing and Hydro Politics	LM/ICT/IM	Text books, Reference books, PPTs	CO2
59		Economic Relation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
60		SAARC	LM/ICT/IM	Text books, Reference books, PPTs	CO2

		Treaty of Friendship	<b>REMEDIAL CLASS</b>	Text books, Reference	CO2
34		Post independence	LM/ICT/IM	Text books, Reference	CO2
53		Criticism and Conclusion	LM/ICT/IM	Text books, Reference	CO2
35		SAARC	LM/ICT/IM	Text books, Reference	CO2
54			<b>REMEDIAL CLASS</b>	books, PPTs	
36		Military Relations with USA East and Act East Policy	LM/ICT/IM	Text books, Reference books, PPTs	CO2
		Science and Technology	<b>Doubt Clear Class</b>	Text books, Reference	CO2
37		Comparison Between Look East and Act East	LM/ICT/IM	Text books, Reference	CO2
56		Indo-US Strategic Partnership	LM/ICT/IM	Text books, Reference	CO2
38				books, PPTs	
			<b>Doubt Clear Class</b>		
		Triangular Relations	LM/ICT/IM	Text books, Reference	CO2
57		Nuclear Cooperation with USA	LM/ICT/IM	Text books, Reference	CO2
39				books, PPTs	
		<b>QUESTION ANSWER DISCUSSION</b>			
40		BECA,COMCASA	LM/ICT/IM	Text books, Reference books, PPTs	CO2
41	III	India -China Relation			
42		Geopolitical Overview	LM/ICT/IM	Text books, Reference books, PPTs	CO2
43		History	LM/ICT/IM	Text books, PPTs	CO2
44		Post independence	LM/ICT/IM	Text books, Reference books, PPTs	CO2
45		Triangular Relations	LM/ICT/IM	Text books, Reference books, PPTs	CO2
46		Military Relation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
47		Water sharing and Hydro Politics	LM/ICT/IM	Text books, Reference books, PPTs	CO2
48		Economic Relation	LM/ICT/IM	Text books, Reference books, PPTs	CO2
49		SAARC	LM/ICT/IM	Text books, Reference books, PPTs	CO2
50		SAARC	LM/ICT/IM	Text books, Reference books, PPTs	CO2

51		Comparison Between Look East and Act East Policy	LM/ICT/IM	Text books, Reference books, PPTs	CO2
52		Criticism and conclusion	LM/ICT/IM	Text books, Reference books, PPTs	CO2
61	IV	India and Contemporary World	LM/ICT/IM	Text books, Reference books, PPTs	CO2
62		India as an Emerging global Power	LM/ICT/IM	Text books, Reference books, PPTs	CO3
61		History and a Changing World	LM/ICT/IM	Text books, Reference books, PPTs	CO3
63		Factors in Favour of India	LM/ICT/IM	Text books, Reference books, PPTs	CO3
64		Obstacles against India's rise as a Superpower-1	LM/ICT/IM	Text books, Reference books, PPTs	CO4
65		Obstacles against India's rise as a Superpower-2	LM/ICT/IM	Text books, PPTs	CO4
66		Obstacles against India's rise as a Superpower-3	LM/ICT/IM	Text books, Reference books, PPTs	CO4
67		Disputes	LM/ICT/IM	Text books, Reference books, PPTs	CO4
68		Economic problem	LM/ICT/IM	Text books, Reference books, PPTs	CO4
69		Lack of International representation	LM/ICT/IM	Text books, Reference books, PPTs	CO4
70		Subsistence Farming	LM/ICT/IM	Text books, Reference books, PPTs	CO4
71		Poverty	LM/ICT/IM	Text books, Reference books, PPTs	CO4
72		Inflation and Overheating	LM/ICT/IM	Text books, Reference books, PPTs	CO4
73		India in the Contemporary world-1	LM/ICT/IM	Text books, Reference books, PPTs	CO4
74		India in the Contemporary world-2	LM/ICT/IM	Text books, Reference books, PPTs	CO4

75		India in the Contemporary world-3	LM/ICT/IM	Text books, Reference books, PPTs	CO4
<b>REMEDIAL CLASS</b>					
76		History and a Changing World	LM/ICT/IM	Text books, Reference books, PPTs	CO4
77		India in the Contemporary world-1			
<b>Doubt clear class</b>					
78		Obstacles against India's rise as a Superpower-1	LM/ICT/IM	Text books, PPTs	CO4
<b>QUESTION ANSWER DISCUSSION</b>					
79		India in the Contemporary world-3			
80		Factors in Favour of India			

\*LM – Lecture Mode, ICT – Use of Computers/Projectors etc., IM – Interactive Methods (Quiz, Brainstorming etc.), DM – Demonstration Method (Classroom experiment/ Data analysis/ Model)

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

Department	MATHEMATICS	MATHEMATICS
Course Name	CC-I	CC-I PRACTICAL
Semester	I	I
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Dr Surendra Prasad Jena (UNIT-I, II) JITENDRA BARIK (UNIT-III, IV)	Dr Bichitra Pani

Total No. of periods: 55 (Theory) + 25 (Lab) = 80

Week	Periods	Unit	Topics	Method of Teaching	Source of the teaching Material	Corresponding COs	Name of the Teacher
1	1	1	Introduction to Hyperbolic Function Domain range of Hyperbolic function and Inverse Hyperbolic Function	LM/ICT/IM	Text books, Reference books, PPTs	CO1	SPJ
	2		Limit and Continuity of Hyperbolic function and Inverse Hyperbolic Function	LM/ICT/IM	Text books, Reference books, PPTs	CO1	SPJ
	3		Derivative and integration of Hyperbolic function and Inverse Hyperbolic Function	LM/ICT/IM	Text books, Reference books, PPTs	CO1	SPJ
	4		Leibintz rule method discussion $e^{ax+b} \sin x, e^{ax+b} \cos x$	LM/ICT/IM	Text books, Reference books, PPTs	CO1	SPJ
	5		Leibintz rule method discussion $(ax + b)^n \sin x,$ $(ax + b)^n \cos x$	LM/ICT/IM	Text books, Reference books, PPTs	CO1	SPJ
2	1		Derivative arc in various form	LM/ICT/IM	Text books, Reference books, PPTs	CO1	SPJ
	2		Parallel Asymptotes and nonparallel Asymptotes	LM/ICT/IM	Text books, Reference books, PPTs	CO1	SPJ
	3		Polar Asymptotes	LM/ICT/IM	Text books, Reference books, PPTs	CO1	SPJ

	4		Curve tracing of Cartesian Curve	LM/ICT/IM	Text books, Reference books, PPTs	CO1	SPJ
	5		Curvature of Cartesian curve and implicit curve	LM/ICT/IM	Text books, Reference books, PPTs	CO1	SPJ
3	1		Curvature of Parametric and Polar Curve	LM/ICT/IM	Text books, Reference books, PPTs	CO1	SPJ
	2		Doubt Clear	LM/ICT/IM	Text books, Reference books, PPTs	CO1	SPJ
	3		Quiz Test	LM/ICT/IM	Self-Made Question	CO1	SPJ
	4	2	Reduction formulae Introduction and working procedure	LM/ICT/IM	Text books, Reference books, PPTs	CO2	SPJ
	5		Reduction formulae of the type $\int \sin^n x dx$ $\int \cos^n x dx$	LM/ICT/IM	Text books, Reference books, PPTs	C02	SPJ
4	1		Reduction formulae of the type $\int \tan^n x dx$ $\int \cot^n x dx$	LM/ICT/IM	Text books, Reference books, PPTs	C02	SPJ
	2		Reduction formulae of the type $\int \sec^n x dx$ $\int \operatorname{cosec}^n x dx$	LM/ICT/IM	Text books, Reference books, PPTs	CO2	SPJ
	3		Reduction formulae of the type $\int \log^n x dx$ $\int \sin^p x \cos^q x dx$	LM/ICT/IM	Text books, Reference books, PPTs	CO2	SPJ
	4		Rectification of Cartesian Curve	LM/ICT/IM	Text books, Reference books, PPTs	CO2	SPJ
	5		Rectification of Polar Curves	LM/ICT/IM	Text books, Reference books, PPTs	CO2	SPJ
5	1		Quadrature of Cartesian Curves	LM/ICT/IM	Text books, Reference books, PPTs	CO2	SPJ
	2		Quadrature of Polar Curves	LM/ICT/IM	Text books, Reference books, PPTs	CO2	SPJ



	3		Volume of Cartesian Curves and Polar curves	LM/ICT/IM	Text books, Reference books, PPTs	CO2	SPJ
	4		Surface Area of Cartesian Curves and Polar curves	LM/ICT/IM	Text books, Reference books, PPTs	CO2	SPJ
	5		Doubt Clear	LM/ICT/IM	Text books, Reference books, PPTs	CO2	SPJ
6	1		Quiz Test	Written type	Self -Made	CO2	SPJ
	2	3	Introduction to Conic, Types of Conics	LM/ICT/IM	Text books, Reference books, PPTs	CO3	JB
	3		Reflection Properties of Conic Section	LM/ICT/IM	Text books, Reference books, PPTs	CO3	JB
	4		Rotation axes of Conic section	LM/ICT/IM	Text books, Reference books, PPTs	CO3	JB
	5		Equation of conic in second degree Form	LM/ICT/IM	Text books, Reference books, PPTs	CO3	JB
7	1		Classification of Conics Using Discriminated	LM/ICT/IM	Text books, Reference books, PPTs	CO3	JB
	2		Polar Equation conics	LM/ICT/IM	Text books, Reference books, PPTs	CO3	JB
	3		Equation of Parabola and its Geometry	LM/ICT/IM	Text books, Reference books, PPTs	CO3	JB
	4		Equation of hyperbole and its Geometry	LM/ICT/IM	Text books, Reference books, PPTs	CO3	JB
	5		Equation of Ellipse and its Geometry	LM/ICT/IM	Text books, Reference books, PPTs	CO3	JB
8	1		Sketching Of Parabola	LM/ICT/IM	Text books, Reference	CO3	JB

					books, PPTs		
	2		Sketching Of Hyperbole	LM/ICT/IM	Text books, Reference books, PPTs	CO3	JB
	3		Sketching Of Ellipse	LM/ICT/IM	Text books, Reference books, PPTs	CO3	JB
	4		Doubt Clear	LM/ICT/IM	Text books, Reference books, PPTs	CO3	JB
	5		Quiz Test	MCQ Test	Self Made	CO3	JB
9	1	4	Introduction to vector, Dot Product, Cross Product	LM/ICT/IM	Text books, Reference books, PPTs	CO4	JB
	2		Triple Product and its Properties	LM/ICT/IM	Text books, Reference books, PPTs	CO4	JB
	3		Introduction to vector function	LM/ICT/IM	Text books, Reference books, PPTs	CO4	JB
	4		Limit of vector function with Example	LM/ICT/IM	Text books, Reference books, PPTs	CO4	JB
	5		Continuity of vector function with Example	LM/ICT/IM	Text books, Reference books, PPTs	CO4	JB
10	1		Derivative of vector function with Example	LM/ICT/IM	Text books, Reference books, PPTs	CO4	JB
	2		Integration of vector function with Example	LM/ICT/IM	Text books, Reference books, PPTs	CO4	JB
	3		Tangent of Vector function	LM/ICT/IM	Text books, Reference books, PPTs	CO4	JB
	4		Normal of Vector function	LM/ICT/IM	Text books, Reference books, PPTs	CO4	JB

	5		Velocity and Acceleration of Vector Function	LM/ICT/IM	Text books, Reference books, PPTs	CO4	JB	
11	1		Gradient, Divergence, and Curl Of Vector Function	LM/ICT/IM	Text books, Reference books, PPTs	CO4	JB	
	2		Doubt Clear	LM/ICT/IM	Text books, Reference books, PPTs	CO4	JB	
	3		Quiz Test	Written Problem Based Question	Self -Made	CO4	JB	
	4		PREVIOUS YEAR QUESTION DISCUSSION					SPJ
	5		PREVIOUS YEAR QUESTION DISCUSSION					JB

## LAB WORK

WEEK	PERIOD	Experiment No	Topics	Method	Source	COs	Name of Teacher
<b>1</b>	<b>1</b>		Plotting the graphs of the functions $e^{ax+b}$ and illustrate the effect of a and b on the graph.	LM/ICT/IM	Text books, Reference books, PPTs		<b>BP</b>
	<b>2</b>		Plotting the graphs of the functions $\log(ax+b)$ and illustrate the effect of a and b on the graph.	LM/ICT/IM	Text books, Reference books, PPTs		<b>BP</b>
	<b>3</b>		Plotting the graphs of the functions $\frac{1}{ax+b}$ and illustrate the effect of a and b on the graph.	LM/ICT/IM	Text books, Reference books, PPTs		<b>BP</b>
<b>2</b>	<b>1</b>		Plotting the graphs of the functions $\sin(ax+b)$ and	LM/ICT/IM	Text books, Reference		<b>BP</b>

			illustrate the effect of a and b on the graph.		books, PPTs		
	<b>2</b>		Plotting the graphs of the function's $\cos(ax+b)$ and illustrate the effect of a and b on the graph.	LM/ICT/IM	Text books, Reference books, PPTs		<b>BP</b>
	<b>3</b>		Plotting the graphs of the functions $ ax + b $ and illustrate the effect of a and b on the graph.	LM/ICT/IM	Text books, Reference books, PPTs		<b>BP</b>
<b>3</b>	<b>1</b>		Tracing of the conic Parabola.	LM/ICT/IM	Text books, Reference books, PPTs		<b>BP</b>
	<b>2</b>		Tracing of the conic Hyperbola.	LM/ICT/IM	Text books, Reference books, PPTs		<b>BP</b>
	<b>3</b>		Tracing of the conic Ellipse.	LM/ICT/IM	Text books, Reference books, PPTs		<b>BP</b>
<b>4</b>	<b>1</b>		<b>Revision</b>	LM/ICT/IM	Text books, Reference books, PPTs		<b>BP</b>
	<b>2</b>		<b>Revision</b>	LM/ICT/IM	Text books, Reference books, PPTs		<b>BP</b>
	<b>3</b>		<b>Revision</b>	LM/ICT/IM	Text books, Reference books, PPTs		<b>BP</b>

**SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK**

**TEACHING PLAN 2022-23**

<b>Department</b>	<b>MATHEMATICS</b>
Course Name	C-II: Algebra-I
Semester	1st
No of Weeks	14
No of Periods/week	6
Teacher's Name	Dr. Bichitra Pani, Dr. Pravat Manjari Mohanty

**Total No. of periods: 80Periods**

<b>Week</b>	<b>Periods</b>	<b>Unit</b>	<b>Topics</b>	<b>Method of Teaching</b>	<b>Source of the teaching Material</b>	<b>Corresponding COs</b>	<b>Name of the Teacher</b>
1	1	1	Introduction to Number System And introduction to Complex Number.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	2		Addition and Substraction Complex Number	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	3		Multiplication And Division of Complex Number	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	4		Square and Cube Root Of Complex Number	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	5		Polar coordinates in plane	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	6		Polar representation of a complex number	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
2	1		Operations with complex numbers in polar representation	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	2		Geometric interpretation of multiplication	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	3		Solving problems of exercise questions	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	4		Solving problems of exercise questions	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	5		Finding nth roots of a complex number	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	6		Finding nth roots of a unity	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani

3	1		Discussions on properties of nth roots of unity	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	2		Problem solving class	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	3		Problem solving class	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	4		Binomial equations	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	5		Solving exercise questions	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	6		DOUBT CLEAR	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
4	1		QUIZ TEST/ GROUP DISCUSSION	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	2		PREVIOUS YEAR QUESTION	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Dr. Bichitra Pani
	3	2	Introduction to binary relations	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	4		Equivalence relations	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	5		Basics of functions	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	6		Inverse of functions	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
5	1		Composition of functions	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	2		One-to-one correspondence of functions	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	3		Exercise questions discussion	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	4		The division algorithm	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	5		Divisibility and the Euclidean algorithm	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	6		The fundamental theorem of arithmetic	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani

6	1		Problem solving class	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	2		Congruence	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	3		The principle of mathematical induction	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	4		Stirling's approximation	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	5		Principle of mathematical induction (strong form)	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	6		Problem solving class	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
7	1		Problem solving class	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	2		DOUBT CLEAR	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	3		QUIZ TEST/ GROUP DISCUSSION	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	4		PREVIOUS YEAR QUESTION	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Dr. Bichitra Pani
	5	3	Introduction to systems of linear equations	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	6		Solving a linear system	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
8	1		Row reduction and Echolon forms	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	2		Solutions of linear systems	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	3		Vector equations	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	4		Linear Combinations	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	5		The matrix equation $Ax = b$ .	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	6		solution sets of linear systems	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty

9	1		Homogeneous linear systems	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	2		Non-Homogeneous linear systems	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	3		applications of linear systems	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	4		linear independence	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	5		linear independence of matrix columns	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	6		Characterization of Linearly dependent sets	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
10	1		Sets of two or more vectors	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	2		Problem solving class	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	3		Exercise questions	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	4		DOUBT CLEAR	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	5		QUIZ TEST/ GROUP DISCUSSION	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
	6		PREVIOUS YEAR QUESTION	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Pravat Manjari Mohanty
11	1	4	Matrix operations	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
	2		Properties of matrix multiplication	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
	3		inverse of a matrix	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
	4		characterizations of invertible matrices	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
	5		Problem solving class	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty



	6		Subspaces of $R^n$	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
12	1		Introduction to linear transformations matrix	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
	2		Properties of linear transformation	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
	3		Properties of Subspaces	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
	4		dimension of subspaces of $R^n$	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
	5		Problem solving class	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
	6		rank of a matrix	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
13	1		Introduction to Eigen values	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
	2		Eigen Vectors and properties	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
	3		Eigen Vectors and properties	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
	4		Characteristic Equation of a matrix	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
	5		Problem solving class	LM/ICT/IM	Text books, Reference books, PPTs		Dr. Pravat Manjari Mohanty
	6		DOUBT CLEAR	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
14	1		QUIZ TEST/ GROUP DISCUSSION	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty
	2		PREVIOUS YEAR QUESTION	LM/ICT/IM	Text books, Reference books, PPTs	CO4	Dr. Pravat Manjari Mohanty

## SHAILABALA WOMEN'S AUTONOMOUS COLLEGE, CUTTACK

## TEACHING PLAN 2022-23

<b>Department</b>	<b>MATHEMATICS</b>	<b>MATHEMATICS</b>
Course Name	C-IV: Differential Equations	CC-..... PRACTICAL
Semester	2nd	
No of Weeks	11	09
No of Periods/week	5	3
Teacher's Name	Jitendra Barik	Dr. Bichitra Pani

**Total No. of periods: 55 (Theory) + 25 (Lab) = 80**

Week	Periods	Unit	Topics	Method of Teaching	Source of the teaching Material	Corresponding COs	Name of the Teacher
1	1	1	What is Differential equation and its application.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	2		Solution of D.E.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	3		Different kind of solution.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	4		Geometrical significance of a solution.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	5		Initial and boundary value problem.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
2	1		Existence and uniqueness of solution.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	2		Workout some problems	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	3		Introduction of F.O.F.D. equations and workout some problems.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	4		Solve F.O.F.D.E. by separable variable.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	5		Homogeneous equation and its solutions.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
3	1		Special forms of H.E and its solution.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik

	2		Doubt Clear	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	3		Quiz / Group Discussion	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	4		Solution of Exact equations.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	5		Work out some exercise problem.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
4	1		Integrating factor of non exact equation.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	2		Solve problems using I.F.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	3		Linear equations and its solutions.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	4		Solve boundary value problems.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	5		Equation reducible to linear form Bernoulli equation.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
5	1		Equation reducible to linear form ;Ricati equation.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	2		Equation of F.O but H.D and its solutions.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	3		Equation solvable for P.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	4		Equation solvable for y.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	5		Doubt Clear	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
6	1		Quiz / Group Discussion	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	2		Equation solvable for x.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik

	3		Equation with one variable missing.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	4		Equation homogeneous in x and y.	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	5		The Clairaut equation	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
7	1		The lagrange equation	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	2		Work out some problems	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	3		Work out some problems	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	4		Work out some problems	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
	5		Work out some problems	LM/ICT/IM	Text books, Reference books, PPTs	CO1	Jitendra Barik
8	1	Unit 2	What is linear equation with constant coefficient, L.D.E of nth order.	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Jitendra Barik
	2		Therom based on L.D.E of nth order.	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Jitendra Barik
	3		H.L.E with C.C and find its roots.	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Jitendra Barik
	4		Wronskians solutions.	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Jitendra Barik
	5		Therom based on N.H.L.E. with C.C	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Jitendra Barik
9	1		The operator method of solving L.D.E with C.C.	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Jitendra Barik
	2		Therom based on O.M of solving with C.C.	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Jitendra Barik
	3		The method of U.C. and examples.	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Jitendra Barik

	4		The method of variation of parameters.	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Jitendra Barik
	5		Work out some examples.	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Jitendra Barik
10	1		Work out some exercised problems.	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Jitendra Barik
	2		E.R to L.E with C,C.and work out some problems.	LM/ICT/IM	Text books, Reference books, PPTs	CO2	Jitendra Barik
	3	Unit3	L.D.E with variable coefficient and method of solution using a known solution.	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Bichitra Pani
	4		Therom based on it and workout some problems.	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Bichitra Pani
	5		Method based on removal of the first derivative.	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Bichitra Pani
11	1		Work out some problems.	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Bichitra Pani
	2		Introduction to S.S and S.F. and some basic concepts	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Bichitra Pani
	3		Series solutions of Ordinary points	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Bichitra Pani
	4		Workout some examples	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Bichitra Pani
	5		Legendre's equation	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Bichitra Pani
12	1		Legendre Polynomial	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Bichitra Pani
	2		Generating Function for $P_n(x)$	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Bichitra Pani
	3		Recurrence relation for Legendre Polynomial	LM/ICT/IM	Text books, Reference books, PPTs	CO3	Dr. Bichitra Pani

	4		Theorem based on R.R. of Legendre Polynomial	LM/ICT/IM	Text Reference PPTs	books, books,	CO3	Dr. Bichitra Pani
	5		Hermite equation	LM/ICT/IM	Text Reference PPTs	books, books,	CO3	Dr. Bichitra Pani
13	1		Hermite polynomial	LM/ICT/IM	Text Reference PPTs	books, books,	CO3	Dr. Bichitra Pani
	2		Redrigues Formula for $H_n(x)$	LM/ICT/IM	Text Reference PPTs	books, books,	CO3	Dr. Bichitra Pani
	3		Theorem based on Hermite polynomial	LM/ICT/IM	Text Reference PPTs	books, books,	CO3	Dr. Bichitra Pani
	4		Workout some exercise problems	LM/ICT/IM	Text Reference PPTs	books, books,	CO3	Dr. Bichitra Pani
	5	Unit 4	Laplace transform (L.T.)	LM/ICT/IM	Text Reference PPTs	books, books,	CO4	Dr. Bichitra Pani
14	1		L.T. of some functions	LM/ICT/IM	Text Reference PPTs	books, books,	CO4	Dr. Bichitra Pani
	2		Existence of L.T.	LM/ICT/IM	Text Reference PPTs	books, books,	CO4	Dr. Bichitra Pani
	3		Linear property of L.T.	LM/ICT/IM	Text Reference PPTs	books, books,	CO4	Dr. Bichitra Pani

	4		Shifting theorem	LM/ICT/IM	Text Reference PPTs	books, books,	CO4	Dr. Bichitra Pani
	5		Heaviside expansion formula	LM/ICT/IM	Text Reference PPTs	books, books,	CO4	Dr. Bichitra Pani
15	1		Workout some exercise problems	LM/ICT/IM	Text Reference PPTs	books, books,	CO4	Dr. Bichitra Pani
	2		Differentiation of L.T. and some problems	LM/ICT/IM	Text Reference PPTs	books, books,	CO4	Dr. Bichitra Pani
	3		Integration of L.T. and some problems	LM/ICT/IM	Text Reference PPTs	books, books,	CO4	Dr. Bichitra Pani
	4		Transforms of derivative	LM/ICT/IM	Text Reference PPTs	books, books,	CO4	Dr. Bichitra Pani
	5		Application of ODE using L.T.	LM/ICT/IM	Text Reference PPTs	books, books,	CO4	Dr. Bichitra Pani
16	1		Workout some problems	LM/ICT/IM	Text Reference PPTs	books, books,	CO4	Dr. Bichitra Pani
	2		D.E. with discontinuous RHS	LM/ICT/IM	Text Reference PPTs	books, books,	CO4	Dr. Bichitra Pani
	3		Workout exercise	LM/ICT/IM	Text Reference PPTs	books, books,	CO4	Dr. Bichitra Pani