

## Courses focus on Global, National, Regional and Local Needs

### Program: BSc Chemistry

Sl No	Course Code	Course name	Local need	National need	Regional need	Global need	Description
1	CC-I	Inorganic Chemistry-I		√	√	√	Understand different models of atoms, chemical bond and geometry
2	CC-II	Physical Chemistry-I		√	√	√	To impart knowledge on states of matter – Solid, Liquid and Gases
3	CC-III	Organic Chemistry-I		√	√	√	To understand the basic concepts of organic chemistry
4	CC-IV	Physical Chemistry-II		√	√	√	Study of Chemical Thermodynamics and the laws, applications
5	CC-V	Inorganic Chemistry-II		√	√	√	To educate students about the general principles of metallurgy, Concepts of acids and bases on the basis of various theories.
6	CC-VI	Organic Chemistry-II		√	√	√	To educate students on chemistry of Halogenated Hydrocarbons, Phenols, Alcohols. Ethers and Epoxies, Carbonyl compounds and Active methylene compounds
7	CC-VII	Physical Chemistry-III		√	√	√	To provide basic understanding about Catalysis and Surface Chemistry
8	CC-VIII	Inorganic Chemistry-III	√	√	√	√	To impart advanced knowledge on Bioinorganic Chemistry & its applications to Bio system.
9	CC-IX	Organic Chemistry-III	√	√	√	√	To gain the natural products and Importance of Alkaloids and Terpenes
10	CC-X	Physical Chemistry-IV	√	√	√	√	To understand concepts and to apply principles of electrochemistry.
11	CC-XI	Organic Chemistry-IV		√	√	√	To understand concepts and to apply principles of UV, IR, NMR & Mass spectroscopy
12	CC-XII	Physical Chemistry-V	√	√	√	√	To impart understanding on advanced topics of Quantum Chemistry and molecular spectroscopy
13	CC-XIII	Inorganic Chemistry-IV	√	√	√	√	To apply theoretical principles of qualitative analysis and to understand the chemistry of organometallic compounds
14	CC-XIV	Organic Chemistry-V	√	√	√	√	To study about the synthesis and application of Pharmaceutical compounds oils & fats
15	DSE-I	Polymer Chemistry	√	√	√	√	To impart the knowledge about the preparation, structure, properties and applications of Polymers
16	DSE-II	Green Chemistry	√	√	√	√	To understand and apply 12 principles of green chemistry and methodology
17	DSE-III	Industrial Chemicals and Environment	√	√	√	√	Get an idea about types & manufacture of fertilizers and glimpses of concept of battery & cell.
18	DSE-IV	DISSERTATION	√	√			The research project forms part of the curriculum for students on any of the topic related to chemistry



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18	DSE-IV	DISSERTATION	√	√	√	√	The research project forms part of the curriculum for students on any of the topic related to chemistry
19	GE-I	Inorganic & Organic Chemistry	√			√	Understand different models of atoms, chemical bond and geometry and basic concepts of organic chemistry
20	GE-II	Physical & Organic Chemistry	√			√	To analyse and apply principles of chemical energetics and equilibrium. To understand and apply different organic molecules
21	GE-III	Inorganic & Organic Chemistry	√			√	Understand different models of atoms, chemical bond and geometry and basic concepts of organic chemistry
22	GE-IV	Physical & Organic Chemistry	√			√	To analyse and apply principles of chemical energetics and equilibrium. To understand and apply different organic molecules
23	AECC-I	EVS & DM	√	√	√	√	To study and apply all measures in disaster

							management
24	AECC-II	MIL		√	√		To study and understand literature
25	SEC-I	English Communication		√	√		To understand the art of effective communication skills
26	SEC-II	Quantitative & Logical Thinking	√	√	√		To understand and apply logical thinking
27	E & V-I	Issues Relating to Women	√	√	√		Enable the students to value the contributions of women, from family to the larger society
28	E & V-II	Values & Good Citizens	√	√	√		Understanding Basic Values of Indian Constitution and patriotism
29	E & V-III	Issues of Drug, Tobacco & Alcohol Addiction	√	√	√		The students become aware of the grave danger of consuming alcohol, tobacco and drugs
30	E & V-IV	Ethical Value for Student Life	√	√	√		The students will learn to behave ethically in the campus
31	E & V-V	Vulnerable Sections of Society	√	√	√		Students would be able to appreciate values and ethics relating to vulnerable sections of the society
32	E & V-VI	Environmental and Techno Ethics	√		√	√	Develop an understanding of environmental ethics and work towards sustainable development

**Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum**

**Program: UG COMMERCE**

Sl No	Course Code	Course name	Cross cutting issues addressed				Description
			Professional Ethics	Gender	Human Values	Environment and Sustainability	
1	CC-I	Financial Accounting	√		√	√	To study the preparation of Financial Statement and to ensure that the statement is being prepared by following the Standards.
2	CC-II	Business Law	√		√	√	To understand the provisions of Business Law with respect to various situations.
3	CC-III	Cost Accounting	√			√	To ascertain the cost of the product with segregation to fixed, variable and semi variable cost and fixation of selling price by implementation of Standards.
4	CC-IV	Corporate Law	√	√	√	√	To understand the provisions of companies, Act and its applicability.
5	CC-V	Corporate Accounting	√			√	To understand the applicability of various Accounting Standards while preparing and presentation of financial Statements of Companies.
6	CC-VI	Income Tax- Law and Practice	√	√	√	√	To highlight various provisions of Income Tax Act and its applicability in case of an Individual, with calculation of Tax Liability and filing of Return.

7	CC-VII	Management Principles and Application			√	√	To understand the concepts, techniques and principles of Management in various sectors of Businesses.
8	CC-VIII	GST and Indirect Taxes	√		√	√	To provide and study the Provisions of Indirect Taxes and GST Law and filing of GST returns.
9	CC-IX	Fundamentals of Data Management			√	√	To help in understanding the use of computer knowledge in business for maintaining data and managing data
10	CC-X	Management Accounting	√		√	√	To assess the different tools and techniques used for managerial decision making process.
11	CC-XI	Computerised Accounting and E-Filing of Tax Returns	√		√	√	To help in preparing and presentation of financial statement with accounting concepts and e-filing of Income Tax Returns.
12	CC-XII	Fundamentals of financial management	√	√	√	√	To understand the concepts of Financial management, risk and return relationship, sources of finance and other techniques of Financial Management
13	CC-XIII	Auditing and Corporate Governance	√		√	√	To understand various auditing standards and its applicability while preparing the Financial Report by the Auditor.
14	CC-XIV	Business Mathematics	√		√	√	To familiarise with basic mathematical tools with emphases on application to business and economic situations.
15	DSE-I	Financial Markets, Institutions and Services			√	√	To understand vividly about various financial institutions operating in India and various services to be provided by them.
16	DSE-II	Financial Statement Analysis and Reporting	√		√	√	To Understand the format of financial statement with the techniques to prepare them and to analyse such statement and report thereon.
17	DSE-III	Fundamentals of Corporate Tax Planning	√	√	√	√	To provide various provisions relating to income tax for tax planning by the corporate and individual sector.
18	DSE-IV	Business Research Method and Project Work	√		√	√	To help students to learn how to develop scientific research designs in the study of Commerce and Business.
19	GE-I	Micro Economics	√			√	To help in understanding the need and supply with the response in the market.
20	GE-II	Macro and Indian Economy	√			√	To acquire knowledge about the economic situation in India and its growth impact.
21	GE-III	Business Statistics	√			√	To understand various statistical tools used in the business process.
22	GE-II	Principles of Marketing				√	To understand various processes and tools of marketing for marketing goods and services in the market.
23	AECC-I	EVS & DM		√	√		To study and apply all measures in disaster management
24	AECC-II	MIL		√	√		To study and understand literature
25	SEC-I	English Communication	√	√	√		To understand the art of effective communication skills
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