

Department of Chemistry

1.3.1. List and description of the courses which address the Gender, Environment and Sustainability, Human Values, Professional Ethics and Indian Knowledge System into the Curriculum

S.No.	Course Code	Name of the Course	Ge	EVS	HV	PE	IKS	Outcome
2023-2024								
1	CU231CC1	Core Course I: General Chemistry - I		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To classify the elements in the periodic table, types of bonds, reaction intermediates electronic effects in organic compounds, types of reagents and to analyse the relationship existing between electronic configuration, bonding, geometry of molecules and reactions; structure reactivity and electronic effects.
2	CU232CC1	Core Course II : General Chemistry - II				<input checked="" type="checkbox"/>		To assess the application of acids, indicators, buffers, compounds of s and p- block elements and hydrocarbons.
3	CU232CP1	Core Lab Course II: Organic Estimation and Preparation of Organic Compounds				<input checked="" type="checkbox"/>		To estimate the organic compounds and synthesise organic compounds.
4	CU232EC1	Elective Course II: Chemistry for Biological Sciences - II				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	To estimate of fat and oil samples and calculate saponification value.
5	CU232EP1	Elective Lab Course II: Systematic Analysis of Organic Compounds				<input checked="" type="checkbox"/>		To develop skill in analyzing organic functional groups.
6	CU232NM1	Non Major Elective NME II: Cosmetics and Personal Grooming				<input checked="" type="checkbox"/>		To learn the ingredients of various cosmetics.
7	CU232SE1	Skill Enhancement Course SEC I: Dairy Chemistry				<input checked="" type="checkbox"/>		To analyze the quality of milk.
8	CC2031	Major Core III : General Chemistry - III		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To predict the chemistry of nitrogen and to explain the various photochemical processes.
9	CC2032	Major Elective : I a. Pharmaceutical Chemistry		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	To interpret the chemical structure and pharmacological activities of drugs and to identify common diseases, their causes and treatment.
10	CC2033	Major Elective : I b. Nano and Polymer Chemistry				<input checked="" type="checkbox"/>		To apply the principle of nanochemistry and synthesise novel compound and to analyze the properties of nanoparticles.
11	CC2034	Major Elective : I c. Applied Electro Chemistry				<input checked="" type="checkbox"/>		To interpret the different methods of electroplating.
12	CC20P2	Major Practical II : Semi micro inorganic mixture analysis		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the principles of analysing inorganic compounds.
13	CA2031	Allied II Theory: Inorganic and Physical Chemistry		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To acquire knowledge on atomic structure and bonding.
14	CA20P1	Allied II Practical : Volumetric and Organic Substance Analysis				<input checked="" type="checkbox"/>		To understand and remember the concepts and theory of qualitative and quantitative analysis.
15	APS203	Add on Course III : Professional English for physical sciences			<input checked="" type="checkbox"/>			To develop language skills.
16	FCV202	Foundation course II :Personality Development			<input checked="" type="checkbox"/>			To identify various dimensions and importance of effective personality.
17	CC2041	Major Core IV : General Chemistry - IV				<input checked="" type="checkbox"/>		To apply the reaction mechanisms in the synthesis of components used in industrial and medicinal fields.
18	CC2042	Major Elective : II a. Green Chemistry		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To interpret green method for organic synthesis.
19	CC2043	Major Elective : II b. Forensic Chemistry				<input checked="" type="checkbox"/>		To understand the importance of forensic chemistry.
20	CC2044	Major Elective : II c. Instrumental Methods of Analysis				<input checked="" type="checkbox"/>		To understand the instrumental methods of analysis of chemical compounds.
21	CC20P2	Major Practical II : Semi micro inorganic mixture analysis				<input checked="" type="checkbox"/>		To study the principles of qualitative analysis.
22	CA2042	Allied II Theory: Physical Chemistry		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To apply the principles of physical properties for structural determination.
23	CA20P1	Allied II Practical : Volumetric and Organic Substance Analysis				<input checked="" type="checkbox"/>		To recognize the indicators used in volumetric analysis.
24	APS204	Add on course IV : Professional English for physical sciences			<input checked="" type="checkbox"/>			To develop language skills.
25	FCV202	Foundation course II : Personality Development			<input checked="" type="checkbox"/>			To identify various dimensions and importance of effective personality.
26	CC2051	Major Core V : Organic Chemistry - I				<input checked="" type="checkbox"/>		To apply the synthetic methods to synthesize new compounds.
27	CC2052	Major Core VI : Inorganic Chemistry - I				<input checked="" type="checkbox"/>		To understand the chemistry of inner transition elements and organometallic compounds.

28	CC2053	Major Core VII : Physical Chemistry - I			<input checked="" type="checkbox"/>		To know the concepts of conductance , strong and weak electrolytes.
29	CC2054	Major Elective : III a Bio Chemistry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the biological action of carbohydrates.
30	CC2055	Major Elective : III b Dairy Chemistry			<input checked="" type="checkbox"/>		To understand the biological action of milk.
31	CC2056	Major Elective : III c Analytical Chemistry			<input checked="" type="checkbox"/>		To learn the concepts of precipitation techniques and related analysis.
32	CC20P3	Major Practical III : Gravimetric estimation and Organic preparation			<input checked="" type="checkbox"/>		To gain skill in gravimetric estimation.
33	CC20P4	Major Practical IV: Organic estimation ,organic analysis and determination of physical constants			<input checked="" type="checkbox"/>		To develop skill in analyzing and estimating organic compounds.
34	CC20P5	Major Practical V : Physical Chemistry Experiments			<input checked="" type="checkbox"/>		To develop skill in doing conductivity and potentiometric titrations.
35	AEC201	Ability Enhancement Course (AEC) : Environmental studies	<input checked="" type="checkbox"/>				To recall the components of different ecosystems.
36	CC2061	Major Core VIII : Organic Chemistry - II			<input checked="" type="checkbox"/>		To know the synthesis and structure of carbohydrates,alkaloids, terpenoids and dyes.
37	CC2062	Major Core IX : Inorganic Chemistry -II	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the types of nuclearreactions and their applications.
38	CC2063	Major Core X : Physical Chemistry - II			<input checked="" type="checkbox"/>		To understand the theories ofreaction rate,adsorption and catalysis.
39	CC20P3	Major Practical III : Gravimetric estimation and Organic preparation	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To prepare organic compounds.
40	CC20P4	Major Practical IV : Organic estimation ,organic analysis and determination of physical constants	<input checked="" type="checkbox"/>				To analyse the characteristics of organic compounds.
41	SEC203	Chemistry for competitive examinations	<input checked="" type="checkbox"/>				To analyze the hardness of water.
42	CP231CP1	Core Lab Course I: Organic Chemistry Practical	<input checked="" type="checkbox"/>				To recall the basic principles of organic separation, qualitative analysis and preparation.
43	CP231EC2	Elective Course I : Nano Materials and Nano Technology	<input checked="" type="checkbox"/>				To discuss the various methods of synthesizing nanomaterials.
44	CP232CP1	Core Lab Course II Inorganic Chemistry Practical	<input checked="" type="checkbox"/>				To recall and understand the basic principles in the analysis of cations from a given mixture.
45	CP232EC2	Elective Course III: b) Green Chemistry	<input checked="" type="checkbox"/>				To recall the basic chemical techniques used in conventional industrial preparations and in green innovations.
46	CP232SE1	Skill Enhancement Course I: Health Science			<input checked="" type="checkbox"/>		To acquire knowledge on first aid.
47	PG2033	Elective III (a) : Advanced Topics in ChemistryAdvanced Topics in Chemistry	<input checked="" type="checkbox"/>				To apply the principle of nanochemistry and green chemistry to design and synthesise novel compounds.
48	PG2044	Elective IV (a): Energy for future	<input checked="" type="checkbox"/>				To understand the importance of various sources of non-conventional energy.
49	LST202	Life Skill Training (LST) – II			<input checked="" type="checkbox"/>		To identify the root cause of social evils and it's consequences.
2022-2023							
50	CC2011	Major Core I : General Chemistry - I	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the structure and naming of various organic compounds.
51	CC20P1	Major Practical I : Volumetric Analysis and Inorganic Complex Preparation			<input checked="" type="checkbox"/>		To develop skills in quantitative analysis.
52	CA2011	Allied I Theory: Chemistry for Life Sciences	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the importance of photochemistry and catalysis.
53	APS201	Add on course I : Professional English for physical sciences			<input checked="" type="checkbox"/>		To develop the language skills of students by offering adequate practice in professional contexts.
54	CNM201	Non Major Elective (NME) :Applied Chemistry - I	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To apply the chemical reactions to synthesize day to day articles.
55	SEC201	Meditation and Exercise			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	To promote good - health and emotional stability among students.
56	FCV201	Foundation course I: Values for Life			<input checked="" type="checkbox"/>		To understand the human values, its importance and components.
57	CC2021	Major Core II : General Chemistry - II	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the principles and theories of chemical bonding.
58	CA20P1	Allied I Practical : Volumetric and Organic Substance Analysis			<input checked="" type="checkbox"/>		To understand the principles of volumetric analysis.

59	CNM201	Non Major Elective (NME) :Applied Chemistry - I	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To analyse the characteristics and advantages of agrochemicals.	
60	APS202	Add on course II : Professional English for physical sciences	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To use language for speaking with confidence in an intelligible and acceptable manner.	
61	CNM202	Non Major Elective (NME) :Applied Chemistry - II	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To understand the process of manufacture of cosmetics and perfumes.	
62	SEC202	Computer Literacy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To understand the basic working of MS office which includes ms word, excel and powerpoint.	
63	FCV201	Foundation course I : Values for Life	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To comprehend the different personal values and its components.	
64	SLP201	Service Learning Programme (SLP) : Community Engagement Course	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To gain an understanding of rural life, culture and social realities.	
65	CC2031	Major Core III : General Chemistry - III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To explain the various photochemical processes.	
66	CC2032	Major Elective : I a. Pharmaceutical Chemistry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	To interpret the chemical structure and pharmacological activities of drugs.
67	CC2033	Major Elective : I b. Nano and Polymer Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To apply the principle of nanochemistry and synthesise novel compounds.	
68	CC2034	Major Elective : I c. Applied Electro Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To interpret the different methods of electroplating.	
69	CC20P2	Major Practical II : Semi micro inorganic mixture analysis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To understand the principles of analysing inorganic compounds.	
70	CA2031	Allied II Theory: Inorganic and Physical Chemistry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To acquire knowledge on atomic structure and bonding.	
71	CA20P1	Allied II Practical : Volumetric and Organic Substance Analysis	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To understand and remember the concepts and theory of qualitative and quantitative analysis.	
72	APS203	Add on Course III : Professional English for physical sciences	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To develop language skills.	
73	FCV202	Foundation course II :Personality Development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To identify various dimensions and importance of effective personality.	
74	CC2041	Major Core IV : General Chemistry - IV	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To apply the reaction mechanisms in the synthesis of components used in industrial and medicinal fields.	
75	CC2042	Major Elective : II a. Green Chemistry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To interpret green method for organic synthesis.	
76	CC2043	Major Elective : II b. Forensic Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To understand the importance of forensic chemistry.	
77	CC2044	Major Elective : II c. Instrumental Methods of Analysis	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To understand the instrumental methods of analysis of chemical compounds.	
78	CC20P2	Major Practical II : Semi micro inorganic mixture analysis	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To study the principles of qualitative analysis.	
79	CA2042	Allied II Theory: Physical Chemistry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To apply the principles of physical properties for structural determination.	
80	CA20P1	Allied II Practical : Volumetric and Organic Substance Analysis	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To recognize the indicators used in volumetric analysis.	
81	APS204	Add on course IV : Professional English for physical sciences	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To develop language skills.	
82	FCV202	Foundation course II : Personality Development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To identify various dimensions and importance of effective personality.	
83	CC2051	Major Core V : Organic Chemistry - I	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To apply the synthetic methods to synthesize new compounds.	
84	CC2052	Major Core VI : Inorganic Chemistry - I	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To understand the chemistry of inner transition elements and organometallic compounds.	
85	CC2053	Major Core VII : Physical Chemistry - I	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To understand the working of electro chemical cells, EMF measurement and their applications.	
86	CC2054	Major Elective : III a Bio Chemistry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To know the functions of lipids, amino acids , proteins and nucleic acids.	
87	CC2055	Major Elective : III b Dairy Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To understand the biological action of milk.	
88	CC2056	Major Elective : III c Analytical Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To learn the concepts of precipitation techniques and related analysis.	
89	CC20P3	Major Practical III : Gravimetric estimation and Organic preparation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To gain skill in gravimetric estimation.	
90	CC20P4	Major Practical IV: Organic estimation ,organic analysis and determination of physical constants	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To determine the physical constants of organic compounds accurately.	
91	CC20P5	Major Practical V : Physical Chemistry Experiments	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To develop skill in doing conductivity and potentiometric titrations.	

92	AEC201	Ability Enhancement Course (AEC) : Environmental studies	<input checked="" type="checkbox"/>				To recall the components of different ecosystems.
93	FCV203	Foundation course III : Human Rights Education		<input checked="" type="checkbox"/>			To interpret the problems of human rights and find solution.
94	CC2061	Major Core VIII : Organic Chemistry - II			<input checked="" type="checkbox"/>		To know the synthesis and structure of carbohydrates, alkaloids, terpenoids and dyes.
95	CC2062	Major Core IX : Inorganic Chemistry -II	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the types of nuclear reactions and their applications.
96	CC2063	Major Core X : Physical Chemistry - II			<input checked="" type="checkbox"/>		To understand the theories of reaction rate, adsorption and catalysis.
97	CC20P3	Major Practical III : Gravimetric estimation and Organic preparation	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To prepare organic compounds.
98	CC20P4	Major Practical IV : Organic estimation ,organic analysis and determination of physical constants	<input checked="" type="checkbox"/>				To analyse the characteristics of organic compounds.
99	SEC203	Chemistry for competitive examinations	<input checked="" type="checkbox"/>				To analyze the hardness of water.
100	PG20P1	Practical I: Inorganic Chemistry - I	<input checked="" type="checkbox"/>				To analyze inorganic compounds using semi-micro qualitative analysis and paper chromatography.
101	PG20P2	Practical II: Organic Chemistry	<input checked="" type="checkbox"/>				To understand the methods for the separation of organic compounds.
102	PG2033	Elective III (a): Advanced Topics in Chemistry	<input checked="" type="checkbox"/>				To apply the principle of nanochemistry and green chemistry to design and synthesise novel compounds.
103	PG2044	Elective IV (a): Energy for Future	<input checked="" type="checkbox"/>				To understand the importance of various sources of non-conventional energy.
104	LST201	Life Skill Training (LST) – I		<input checked="" type="checkbox"/>			To understand the importance of soft skills.
105	LST202	Life Skill Training (LST) – II		<input checked="" type="checkbox"/>			To identify the root cause of social evils and its consequences.
2021-2022							
106	CC2011	Major Core I : General Chemistry - I	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the structure and naming of various organic compounds.
107	CC20P1	Major Practical I : Volumetric Analysis and Inorganic Complex Preparation			<input checked="" type="checkbox"/>		To develop skills in quantitative analysis.
108	CA2011	Allied I Theory: Chemistry for Life Sciences	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the importance of photochemistry and catalysis.
109	APS201	Add on course I : Professional English for physical sciences			<input checked="" type="checkbox"/>		To develop the language skills of students by offering adequate practice in professional contexts.
110	CNM201	Non Major Elective (NME) :Applied Chemistry - I	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To apply the chemical reactions to synthesize day to day articles.
111	SEC201	Meditation and Exercise			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	To promote good - health and emotional stability among students.
112	FCV201	Foundation course I : Values for Life		<input checked="" type="checkbox"/>			To understand the human values, its importance and components.
113	CC2021	Major Core II : General Chemistry - II	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the principles and theories of chemical bonding.
114	CA20P1	Allied I Practical : Volumetric and Organic Substance Analysis			<input checked="" type="checkbox"/>		To understand the principles of volumetric analysis.
115	CNM201	Non Major Elective (NME) :Applied Chemistry - I	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To analyse the characteristics and advantages of agrochemicals.
116	APS202	Add on course II : Professional English for physical sciences			<input checked="" type="checkbox"/>		To use language for speaking with confidence in an intelligible and acceptable manner.
117	CNM202	Non Major Elective (NME) :Applied Chemistry - II			<input checked="" type="checkbox"/>		To understand the process of manufacture of cosmetics and perfumes.
118	SEC202	Computer Literacy			<input checked="" type="checkbox"/>		To understand the basic working of MS office which includes ms word, excel and powerpoint.
119	FCV201	Foundation course I : Values for Life		<input checked="" type="checkbox"/>			To comprehend the different personal values and its components.
120	SLP201	Service Learning Programme (SLP) : Community Engagement Course		<input checked="" type="checkbox"/>			To gain an understanding of rural life, culture and social realities.
121	CC2031	Major Core III : General Chemistry - III	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To predict the chemistry of nitrogen.

122	CC2032	Major Elective : I a. Pharmaceutical Chemistry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	To interpret the chemical structure and pharmacological activities of drugs.
123	CC2033	Major Elective : I b. Nano and Polymer Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To apply the principle of nanochemistry and synthesise novel compounds.
124	CC2034	Major Elective : I c. Applied Electro Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To interpret the different methods of electroplating.
125	CC20P2	Major Practical II : Semi micro inorganic mixture analysis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To understand the principles of analysing inorganic compounds
126	CA2031	Allied II Theory: Inorganic and Physical Chemistry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To acquire knowledge on atomic structure and bonding.
127	CA20P1	Allied II Practical : Volumetric and Organic Substance Analysis	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To understand and remember the concepts and theory of qualitative and quantitative analysis.
128	APS203	Add on Course III : Professional English for physical sciences	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	To develop language skills.
129	FCV202	Foundation course II :Personality Development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	To identify various dimensions and importance of effective personality.
130	CC2041	Major Core IV : General Chemistry - IV	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To apply the reaction mechanisms in the synthesis of components used in industrial and medicinal fields.
131	CC2042	Major Elective : II a. Green Chemistry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To interpret green method for organic synthesis.
132	CC2043	Major Elective : II b. Forensic Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To understand the importance of Forensic chemistry.
133	CC2044	Major Elective : II c. Instrumental Methods of Analysis	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To understand the instrumental methods of analysis of chemical compounds.
134	CC20P2	Major Practical II : Semi micro inorganic mixture analysis	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To study the principles of qualitative analysis.
135	CA2042	Allied II Theory: Physical Chemistry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To apply the principles of physical properties for structural determination.
136	CA20P1	Allied II Practical : Volumetric and Organic Substance Analysis	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To recognize the indicators used in volumetric analysis.
137	APS204	Add on course IV : Professional English for physical sciences	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	To develop language skills.
138	FCV202	Foundation course II : Personality Development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	To identify various dimensions and importance of effective personality.
139	CC1751	Major Core V: Organic Chemistry - III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To study about phenols and their derivatives.
140	CC1752	Major Core VI : Inorganic Chemistry - II	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To study the characteristics of p-block elements, noble gases and their compounds.
141	CC1753	Major Core VII : Physical Chemistry - II	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To know and learn the principles of thermodynamics and colligative properties.
142	CC1754	Major Elective III (a): Green Chemistry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To know the principles of green chemistry.
143	CC1754	Major Elective III (b): Applied Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To understand the industrial applications of electro chemistry.
144	CC1754	Major Elective III (c) : Leather Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To know the principles involved in leather industry.
145	CC17P5	Major Practical V & VI : Organic Estimation and Inorganic Semi-micro Analysis	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To develop skill in analyzing inorganic mixtures and estimating organic compounds.
146	CC1761	Major Core VIII : Organic Chemistry -IV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To learn about carboxylic acids and carbohydrates.
147	CC1762	Major Core IX : Inorganic Chemistry -III	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To know the nomenclature, isomerism in co-ordination compounds.
148	CC1763	Major Core X : Physical Chemistry - III	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To acquire the knowledge of phase diagram and chemical kinetics.
149	CC1764	Major Elective IV (a): Bio Chemistry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To know the biological action of carbohydrates.
150	CC1764	Major Elective IV (b): Instrumental methods	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To understand the instrumental methods to analyze chemical compound.
151	CC1764	Major Elective IV (c): Forensic Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To understand the applications of forensic chemistry.
152	CC17P5	Major Practical V: Organic Estimation and Inorganic Semi-micro Analysis	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To train the students in organic estimation.

153	CC17P6	Major Practical VI: Gravimetric Analysis and Inorganic complex preparation			<input checked="" type="checkbox"/>		To develop skills in gravimetric analysis.
154	CC17P7	Major Practical VII: Physical Chemistry			<input checked="" type="checkbox"/>		To develop skill in doing conductivity and potentiometric titrations.
155	CC17S1	Soil Science and Agricultural Chemistry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To know the different types of soil.
156	CC17S2	Chemistry of Cosmetics			<input checked="" type="checkbox"/>		To know the preparation of cosmetics.
157	CSK175	Chemistry for Competitive Examinations - I	<input checked="" type="checkbox"/>				To prepare the students for competitive exams.
158	PG20P1	Practical I: Inorganic Chemistry - I	<input checked="" type="checkbox"/>				To analyze inorganic compounds using semi-micro qualitative analysis and paper chromatography.
159	PG20P2	Practical II : Organic Chemistry	<input checked="" type="checkbox"/>				To understand the methods for the separation of organic compounds.
160	PG2033	Elective III (a): Advanced Topics in Chemistry	<input checked="" type="checkbox"/>				To apply the principle of nanochemistry and green chemistry to design and synthesise novel compounds.
161	PG2044	Elective IV (a): Energy for Future	<input checked="" type="checkbox"/>				To understand the importance of various sources of non-conventional energy.
162	LST201	Life Skill Training (LST) – I			<input checked="" type="checkbox"/>		To apply the tools and techniques for effective communication.
163	LST202	Life Skill Training (LST) – II			<input checked="" type="checkbox"/>		To identify the root cause of social evils and it's consequences.
2020-2021							
164	CC2011	Major Core I : General Chemistry - I	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the structure and naming of various organic compounds.
165	CC20P1	Major Practical I : Volumetric Analysis and Inorganic Complex Preparation			<input checked="" type="checkbox"/>		To develop skills in quantitative analysis.
166	CA2011	Allied I Theory: Chemistry for Life Sciences	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the importance of photochemistry and catalysis.
167	APS201	Add on course I : Professional English for physical sciences			<input checked="" type="checkbox"/>		To develop the language skills of students by offering adequate practice in professional contexts.
168	CNM201	Non Major Elective (NME) :Applied Chemistry - I	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To apply the chemical reactions to synthesize day to day articles.
169	SEC201	Meditation and Exercise			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	To promote good - health and emotional stability among students.
170	FCV201	Foundation course I : Values for Life			<input checked="" type="checkbox"/>		To understand the human values, its importance and components.
171	CC2021	Major Core II : General Chemistry - II	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To learn the preparation, properties and importance of aliphatic hydrocarbons and alicyclic compounds.
172	CA20P1	Allied I Practical : Volumetric and Organic Substance Analysis			<input checked="" type="checkbox"/>		To understand the principles of volumetric analysis.
173	CNM201	Non Major Elective (NME) :Applied Chemistry - I	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To analyse the characteristics and advantages of agrochemicals.
174	APS202	Add on course II : Professional English for physical sciences			<input checked="" type="checkbox"/>		To use language for speaking with confidence in an intelligible and acceptable manner.
175	CNM202	Non Major Elective (NME) :Applied Chemistry - II			<input checked="" type="checkbox"/>		To understand the process of manufacture of cosmetics and perfumes.
176	SEC202	Computer Literacy			<input checked="" type="checkbox"/>		To understand the basic working of MS office which includes ms word, excel and powerpoint.
177	FCV201	Foundation course I : Values for Life			<input checked="" type="checkbox"/>		To comprehend the different personal values and its components.
178	SLP201	Service Learning Programme (SLP) : Community Engagement Course			<input checked="" type="checkbox"/>		To gain an understanding of rural life, culture and social realities.
179	CC1731	Major Core III : Organic Chemistry - I			<input checked="" type="checkbox"/>		To learn about the electronic displacements and polar effects in organic compounds.
180	CC1732	Major Elective I (a) : Dairy Chemistry			<input checked="" type="checkbox"/>		To make the students to understand the various aspects of health and hygiene and to practice lab to land.
181	CC1732	Major – Elective - I (b) Nutritional Chemistry			<input checked="" type="checkbox"/>		To make the students understand the different types of nutrients essential for the growth.
182	CC1732	Major Elective I (c) : Applied Electro Chemistry			<input checked="" type="checkbox"/>		To learn about industrial electro chemistry, hydrometallurgy, electro metallurgy and pyrometallurgy.

183	CC17P3	Major Practical III : Organic Preparation and Determination of Physical Constants			<input checked="" type="checkbox"/>		To find out the exact melting and boiling point of organic substances.
184	CA1731	Allied II Theory: General Chemistry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the general characteristics of aromatic compounds.
185	CA17P1	Allied II Practical : Volumetric and Organic Analysis			<input checked="" type="checkbox"/>		To develop skill in doing volumetric estimations.
186	CC1741	Major Core IV : Organic Chemistry - II			<input checked="" type="checkbox"/>		To understand oxygen derivatives and carbonyl derivatives.
187	CC1742	Major Elective II (a) : Industrial Chemistry			<input checked="" type="checkbox"/>		To understand the applications of chemical industries.
188	CC1742	Major Elective II(b): Polymer Chemistry			<input checked="" type="checkbox"/>		To know about the different types of polymerization reactions.
189	CC1742	Major Elective II (c) : Pharmaceutical Chemistry	<input checked="" type="checkbox"/>				To learn the biological role of Ca, Zn and Cu.
190	CC17P3	Major Practical III : Organic Preparation and Determination of Physical Constants			<input checked="" type="checkbox"/>		To develop skill in preparing organic compounds.
191	CC17P4	Major Practical IV : Organic Analysis			<input checked="" type="checkbox"/>		To develop skill in doing organic substance analysis.
192	CA1741	Allied II Theory: Inorganic and Physical Chemistry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To gain knowledge on basic concepts of electrochemistry.
193	CC1751	Major Core V : Organic Chemistry - III	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To study about phenols and their derivatives.
194	CC1752	Major Core VI : Inorganic Chemistry - II			<input checked="" type="checkbox"/>		To study the characteristics of p-block elements, noble gases and their compounds.
195	CC1753	Major Core VII : Physical Chemistry - II			<input checked="" type="checkbox"/>		To impart knowledge about the symmetry elements and symmetry operations.
196	CC1754	Major Elective III (a) : Green Chemistry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To study the important techniques and green synthesis of compounds.
197	CC1754	Major Elective III (b) : Applied Chemistry			<input checked="" type="checkbox"/>		To understand the industrial applications of electro chemistry.
198	CC1754	Major Elective III (c) : Leather Chemistry			<input checked="" type="checkbox"/>		To understand the process of tanning, properties and uses of leather.
199	CC17P5	Major Practical V & VI : Organic Estimation and Inorganic Semi-micro Analysis			<input checked="" type="checkbox"/>		To develop skill in analyzing inorganic mixtures and estimating organic compounds.
200	CC1761	Major Core VIII : Organic Chemistry -IV	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To learn about carboxylic acids and carbohydrates.
201	CC1762	Major Core IX : Inorganic Chemistry -III			<input checked="" type="checkbox"/>		To know the nomenclature, isomerism in co-ordination compounds.
202	CC1763	Major Core X : Physical Chemistry - III			<input checked="" type="checkbox"/>		To acquire the knowledge of phase diagram and chemical kinetics.
203	CC1764	Major Elective IV (a) : Bio Chemistry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To know the biological action of carbohydrates.
204	CC1764	Major Elective IV (b) : Instrumental methods			<input checked="" type="checkbox"/>		To understand the instrumental methods to analyze chemical compound.
205	CC1764	Major Elective IV (c) : Forensic Chemistry			<input checked="" type="checkbox"/>		To understand the applications of forensic chemistry.
206	CC17P5	Major Practical V : Organic Estimation and Inorganic Semi-micro Analysis			<input checked="" type="checkbox"/>		To train the students in organic estimation.
207	CC17P6	Major Practical VI : Gravimetric Analysis and Inorganic complex preparation			<input checked="" type="checkbox"/>		To develop skills in gravimetric analysis.
208	CC17P7	Major Practical VII : Physical Chemistry			<input checked="" type="checkbox"/>		To develop skill in doing conductivity and potentiometric titrations.
209	CC17S1	Soil Science and Agricultural Chemistry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To know the different types of soil.
210	CC17S2	Chemistry of Cosmetics			<input checked="" type="checkbox"/>		To understand harmful effects of the ingredients.
211	PG20P1	Practical I: Inorganic Chemistry - I	<input checked="" type="checkbox"/>				To analyze inorganic compounds using semi-micro qualitative analysis and paper chromatography.
212	PG20P2	Practical II: Organic Chemistry	<input checked="" type="checkbox"/>				To understand the methods for the separation of organic compounds.
213	LST201	Life Skill Training (LST) – I		<input checked="" type="checkbox"/>			To understand the importance of soft skills.

214	PG1733	Elective III (a): Advanced Topics in Chemistry	<input checked="" type="checkbox"/>				To apply the principle of nanochemistry and green chemistry to design and synthesise novel compounds.
215	PG1744	Elective IV (a): Energy for FutureEnergy for future	<input checked="" type="checkbox"/>				To understand the importance of various sources of non-conventional energy.
216	LST172	Life Skill Training (LST) – II		<input checked="" type="checkbox"/>			To identify the root cause of social evils and it's consequences.
2019-2020							
217	CC1711	Major Core I : Inorganic Chemistry - I	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the various types of chemical bond formation in molecules.
218	CC17P1	Major Practical I : Volumetric Analysis - I			<input checked="" type="checkbox"/>		To develop skill in doing volumetric estimations.
219	CA1711	Allied I –Theory: General Chemistry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To acquire knowledge about the atomic structure and bonding in molecules.
220	CA17P1	Allied I Practical : Volumetric and Organic Analysis			<input checked="" type="checkbox"/>		To learn the principles of volumetric analysis.
221	CNM171	NMEC : Molecules of Life	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To make the students understand the different types of nutrients like carbohydrates, vitamins and minerals essential for the growth of mankind.
222	CC1721	Major Core II : Physical Chemistry - I			<input checked="" type="checkbox"/>		To acquire knowledge about gaseous state, liquid state and solid state.
223	CC17P1	Major Practical I : Volumetric Analysis – I			<input checked="" type="checkbox"/>		To develop skill in doing volumetric estimations.
224	CC17P2	Major Practical II : Volumetric Analysis - II			<input checked="" type="checkbox"/>		To develop skill in doing volumetric estimations.
225	CA1721	Allied I Theory: Inorganic and Physical Chemistry			<input checked="" type="checkbox"/>		To acquire knowledge about thermodynamics and electrochemistry.
226	CNM172	NMEC : Fuel Chemistry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To gain knowledge on different types of fuels, applications of fuels and petrochemicals.
227	CC1731	Major Core III : Organic Chemistry - I			<input checked="" type="checkbox"/>		To learn about the electronic displacements and polar effects in organic compounds.
228	CC1732	Major Elective I (a) : Dairy Chemistry			<input checked="" type="checkbox"/>		To learn about the dairy products.
229	CC1732	Major – Elective - I (b)Nutritional Chemistry			<input checked="" type="checkbox"/>		To make the students understand the different types of nutrients essential for the growth.
230	CC1732	Major Elective I (c) : Applied Electro Chemistry			<input checked="" type="checkbox"/>		To learn about industrial electro chemistry, hydrometallurgy, electro metallurgy and pyrometallurgy.
231	CC17P3	Major Practical III : Organic Preparation and Determination of Physical Constants			<input checked="" type="checkbox"/>		To develop skill in preparing organic compounds.
232	CA1731	Allied II Theory: General Chemistry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the shape of atomic orbitals.
233	CA17P1	Allied II Practical : Volumetric and Organic Analysis			<input checked="" type="checkbox"/>		To develop skill in doing volumetric estimations.
234	CC1741	Major Core IV : Organic Chemistry - II			<input checked="" type="checkbox"/>		To study the chemistry of halogenated hydrocarbons.
235	CC1742	Major Elective II (a) : Industrial Chemistry			<input checked="" type="checkbox"/>		To understand the applications of chemical industries.
236	CC1742	Major Elective II(b) : Polymer Chemistry			<input checked="" type="checkbox"/>		To know about the different types of polymerization reactions.
237	CC17P3	Major Practical III : Organic Preparation and Determination of Physical Constants			<input checked="" type="checkbox"/>		To develop skill in preparing organic compounds.
238	CC17P4	Major Practical IV : Organic Analysis			<input checked="" type="checkbox"/>		To develop skill in doing organic substance analysis.
239	CA1741	Allied II Theory: Inorganic and Physical Chemistry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To know the importance of hydrogen cell.
240	CC1751	Major Core V : Organic Chemistry - III	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To study about phenols and their derivatives.
241	CC1752	Major Core VI : Inorganic Chemistry - II			<input checked="" type="checkbox"/>		To study the characteristics of p-block elements, noble gases and their compounds.
242	CC1753	Major Core VII : Physical Chemistry - II			<input checked="" type="checkbox"/>		To know and learn the principles of thermodynamics and colligative properties.
243	CC1754	Major Elective III (a): Green Chemistry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To know the principles of green chemistry.

244	CC1754	Major Elective III (b) : Applied Chemistry			<input checked="" type="checkbox"/>		To understand the industrial applications of electro chemistry.
245	CC1754	Major Elective III (c): Leather Chemistry			<input checked="" type="checkbox"/>		To understand the process of tanning, properties and uses of leather.
246	CC17P5	Major Practical V & VI : Organic Estimation and Inorganic Semi-micro Analysis			<input checked="" type="checkbox"/>		To develop skill in analyzing inorganic mixtures and estimating organic compounds.
247	CC1761	Major Core VIII : Organic Chemistry -IV	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To learn about carboxylic acids and carbohydrates.
248	CC1762	Major Core IX : Inorganic Chemistry -III			<input checked="" type="checkbox"/>		To know the nomenclature, isomerism in co-ordination compounds.
249	CC1763	Major Core X : Physical Chemistry - III			<input checked="" type="checkbox"/>		To acquire the knowledge of phase diagram and chemical kinetics.
250	CC1764	Major – Elective - IV (a) Bio Chemistry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To know the biological action of carbohydrates.
251	CC1764	Major Elective IV (b) : Instrumental methods			<input checked="" type="checkbox"/>		To understand the instrumental methods to analyze chemical compound.
252	CC1764	Major Elective IV (c) : Forensic Chemistry			<input checked="" type="checkbox"/>		To understand the applications of forensic chemistry.
253	CC17P5	Major Practical V: Organic Estimation and Inorganic Semi-micro Analysis			<input checked="" type="checkbox"/>		To train the students in organic estimation.
254	CC17P6	Major Practical VI : Gravimetric Analysis and Inorganic complex preparation			<input checked="" type="checkbox"/>		To develop skills in gravimetric analysis.
255	CC17P7	Major Practical VII : Physical Chemistry			<input checked="" type="checkbox"/>		To develop skill in doing conductivity and potentiometric titrations.
256	CC17S1	Soil Science and Agricultural Chemistry	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To know the different types of soil.
257	CC17S2	Chemistry of Cosmetics			<input checked="" type="checkbox"/>		To know the preparation of cosmetics.
258	PG17P1	Practical I : Organic Chemistry	<input checked="" type="checkbox"/>				To analyse the elements and functional groups using microscale analysis.
259	PG17P2	Practical II: Inorganic Chemistry	<input checked="" type="checkbox"/>				To analyze inorganic compounds using semi-micro qualitative analysis and paper chromatography.
260	PG1733	Elective III (a) : Advanced Topics in Chemistry	<input checked="" type="checkbox"/>				To apply the principle of nanochemistry and green chemistry to design and synthesise novel compounds.
261	PG1744	Elective IV (a) : Energy for future	<input checked="" type="checkbox"/>				To apply the principle of energy conversion to the production of energy for the future.
262	LST171	Life Skill Training (LST) – I			<input checked="" type="checkbox"/>		To apply the tools and techniques for effective communication.
263	LST172	Life Skill Training (LST) – II			<input checked="" type="checkbox"/>		To identify the root cause of social evils and it's consequences.