

List of Courses having focus on local, national, regional and global developmental needs offered by the Department of
Chemistry (UG)

DEPARTMENT OF CHEMISTRY (UG)
PROGRAMME: B.Sc., CHEMISTRY

Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
2021 BATCH - V AND VI SEMESTERS						
21UCY507	Core - V : Coordination and Bioinorganic Chemistry		✓	✓	✓	Higher Education, Research & Employment
21UCY508	Core - VI : Organic Chemistry – I					
21UCY509	Core - VII : Electrochemistry				✓	Higher Education, Research & Employment in Electrical sector
21UCY510	Core - VIII : Dye Chemistry				✓	Teaching, Higher Education & Industry
21UCY5E1	Core Elective - I : / Analytical Chemistry – I		✓	✓	✓	Higher education, Research and employment in the Industry
21UCY5E2	Core Elective - I : / Pharmaceutical Chemistry - I				✓	Higher education, Research and employment in the Industry

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21UCY5E3	Core Elective - I : Leather Chemistry					✓	Higher Education, Research & Employment in Industry
21UCY5AL	Advanced Learner Course - I: Environmental Chemistry (Optional) Self Study					✓	Teaching, Higher Education & Industry
21UCY5S1	Skill Based Elective - I : Network and Information Security		✓				Higher Education & Industry
21UCY5S2	Skill Based Elective - I : Cyber security and Ethical Hacking		✓				Higher Education & Industry
21UCY611	Core - IX : Physical Methods and Chemical Structure		✓				Teaching, Higher Education & Industry
21UCY612	Core - X : Organic Chemistry – II					✓	Higher Education, Research & Employment in Textile Industry
21UCY613	Core - XI : Chemical Kinetics and Quantum Mechanics				✓	✓	Higher Education, Research & Employment
21UCY614	Core - XII : Polymer Chemistry					✓	Teaching, Higher education and Industry

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21UCY6E1	Core Elective - II : Analytical Chemistry - II		✓	✓	✓	Higher education, Research and analysis based employment
21UCY6E2	Core Elective - II : Pharmaceutical Chemistry II		✓	✓		Higher Education & Employment in Industry
21UCY6E3	Core Elective - II : Agricultural Chemistry and Analytical Techniques for Agrochemicals		✓	✓		Higher Education & Employment in Industry
21UCY6I5	Core Lab - III : Gravimetric Analysis and Physical Chemistry Experiments		✓	✓	✓	Higher Education & Employment in Industry
21UCY6I6	Summer internship			✓	✓	Higher Education & Employment in Industry
21UCY6A1	Advanced Learner Course - II: Applications of Spectroscopy (Optional) Self Study		✓		✓	Higher Education & Employment in Industry
21UCY6S1	Skill Based Elective - II : Green Chemistry				✓	Higher Education & Employment in Industry
21UCY6S2	Skill Based Elective - II : Clean energy		✓		✓	Higher Education & Employment in Industry

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2022 BATCH - III AND IV SEMESTERS

22UCY304	Core - III : Inorganic and Physical Chemistry					✓	Teaching Education & Industry	Higher
22UCY3N1	Non Major Elective - I : Introduction to Nanotechnology					✓	Teaching & Education	Higher
22UCY3N2	Non Major Elective - I : Chemistry of Consumer Products					✓	Teaching & Education	Higher
22UCY405	Core - IV : Inorganic, Organic and Physical Chemistry					✓	Teaching Education & Industry	Higher
22UCY406	Core Practical II: Volumetric, Organic Qualitative Analysis and Organic Preparations					✓	Teaching & Education	Higher
22UCY4N1	Non Major Elective - II : Textile Chemistry					✓	Teaching & Higher Education	
22UCY4N2	Non Major Elective - II : Food Science and Technology					✓	Teaching & Higher Education	
22UPS3A4/	Allied Chemistry Paper - I : Inorganic, Organic and Physical Chemistry					✓	Teaching Education & Industry	Higher
22UZYZ3A4	Chemistry					✓	Teaching & Higher	
22UPS3A5/	Allied Chemistry Paper - II :							

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22UBY3A5/ 22UZY3A5	Inorganic, Organic and Physical Chemistry							Education
22UPS3A6/ 22UBY3A6/ 22UZY3A6	Allied Chemistry Practical						✓	Teaching, Education & Industry
2023 BATCH - I AND II SEMESTERS								
23UCY101	CC I : Inorganic and Organic Chemistry						✓	Teaching & Higher Education
23UCY202	CC II : Organic and Physical Chemistry						✓	Higher Education
23UCY203	CC Lab - I : Inorganic Qualitative Analysis						✓	Higher Education

Shankar

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