

1.1.1 List of Courses having focus on Local, National, Regional and Global Developmental needs offered by the Department of Chemistry (B.Sc)

DEPARTMENT OF CHEMISTRY(B.Sc)						
Programme: B.Sc (Chemistry)						Year: 2020 - 2023
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
20UCY101	Core Paper – I: Inorganic and Organic chemistry				✓	Higher Education
20UCY202	Core Paper – II: Organic and Physical chemistry				✓	Teaching & Higher Education
20UCY203	Core Practical - I: Inorganic Qualitative Analysis				✓	Higher Education
20UCY304	Core Paper – III: Inorganic and Physical Chemistry				✓	Teaching, Higher Education & Industry
20UCY405	Core Paper – IV: Inorganic, Organic and Physical Chemistry				✓	Teaching & Higher Education
20UCY406	Core Practical - II: Volumetric and Organic Qualitative Analysis				✓	Teaching, Higher Education & Industry
20UCY507	Core Paper – V: Coordination and Bioinorganic Chemistry				✓	Teaching, Higher Education & Industry
20UCY508	Core Paper – VI: Organic Chemistry- I		✓		✓	Competitive exam like IIT JAM, CET, Higher

						education and for research
20UCY509	Core Paper – VII: Electro Chemistry				✓	Higher Education, Teaching, Research & Employment in electrical sectors
20UCY510	Core Paper- VIII: Dye Chemistry				✓	Higher Education, Research & Employment in Textile Industry
20UCY5E1	Core Elective - I: Analytical Chemistry – I				✓	Higher education, Research and Employment in analytical labs
20UCY611	Core Paper – IX: Physical Methods and Chemical Structure		✓		✓	Competitive exam like IIT JAM, CET, Higher education, research & employment
20UCY612	Core Paper – X: Organic Chemistry-II				✓	Higher Education, Research & Employment in Pharmaceutical Industry
20UCY613	Core Paper – XI: Chemical kinetics and Quantum mechanics				✓	Acquire inquisitive knowledge on chemical kinetics and fundamentals of quantum mechanics for Industry ready
20UCY614	Core Paper – XII: Polymer Chemistry				✓	Higher Education, Teaching, Research & Employment
20UCY6E2	Core Elective II: Analytical Chemistry – II				✓	Higher education, Research, and Employment in analytical labs

20UCY615	Core Lab - III: Gravimetric Analysis and Physical Chemistry Experiments		✓		✓	Higher education, Research, and Employment in analytical labs
20UCY6S3	Skill Based Elective - II: Green Chemistry		✓		✓	Higher Education, Teaching & Research for sustainable development



BoS Chairman

CDC - Co-ordinator

Principal