

PROGRAM OUTCOMES

Course Name: B.Sc., CHEMISTRY **Course Code: U17**

Program Specific Outcome (PSO)

- PSO1:** Achievement of Bachelor of Chemistry in a foundational level to the current knowledge.
- PSO2:** Development of intellectual skills at a level required to pursue higher education at National and International level.
- PSO3:** Understanding of practical experimentation, observation and analytical investigations suitable for any Chemistry based industry.
- PSO4:** To communicate effectively, verbally and written, for the purposes of conveying Chemical information to both professional scientists and to the public.
- PSO5:** Graduates will continue lifelong learning and with a high level of enthusiasm and commitment to improve knowledge and competence continuously.

Programme Outcomes

- PO1** To understand the basic principles of the classical subjects in modern chemistry.
- PO2** To unpretentious and experimental knowledge across the principal areas of chemistry.
- PO3** To travel the fundamental concepts of Mathematics and Physics
- PO4** To indulge in deeper learning of the principles of Organic, Inorganic and Physical Chemistry.
- PO5** To learn fundamental analytical and spectroscopic tools and their applications to different disciplines of chemistry.
- PO6** Use research-based knowledge and research methods including understanding of experiments, analysis and interpretation of data, and synthesis of bio-molecules to provide valid conclusions related to

OrganicChemistry.

PO7 To learn the interdisciplinary nature of chemistry and to integrate the knowledge with a variety of chemical problems.

PO8 To learn and demonstrate sustainable industrial reactions within realistic constraints such as economic, environmental, social, ethical, health, safety and productivity.

COURSE OUTCOMES - 2020-2021

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SEMESTER 1:			
S.No.	Course code	Course Title	Outcomes
1	CCH11	General Chemistry - I	<ul style="list-style-type: none">➤ To indulge in deeper learning of the principles of Organic, Inorganic and Physical Chemistry➤ The students will have a thorough knowledge about periodicity of properties.➤ The student will be able to understand the various types of bonding through VB & MO theories. And able to Name simple Aliphatic and Aromatic Compounds.➤ Illustrate and apply electron displacement effects and reaction mechanisms. Elaborate the basic concepts of solid, liquid and gaseous states. Apply the principles of Volumetric Analysis.
2	CAMA15C	Mathematics I	To Explore the Fundamental Concepts of Mathematics such as Algebra, Theory of

			Equations, Matrices, Trigonometry and Differential Calculus.
3	CPE10C	Professional English I	<ul style="list-style-type: none"> ➤ Students will be enabled to understand the basic objective of the course by being acquainted with specific dimensions of communication skills i.e. Reading, writing, Listening, Thinking and Speaking. ➤ Students will apply it for practical and oral presentation purposes by being honed up in presentation skills and voice-dynamics. ➤ Students would be able to create substantial base by the formation of strong professional vocabulary for its application at different platforms and through numerous modes as Comprehension, reading, writing and speaking etc.
4	CES10	Environmental studies	<ul style="list-style-type: none"> ➤ The student will be having awareness about the environment. ➤ The student will understand the basic of Natural Resources. ➤ The students will have a thorough knowledge about Ecosystem, Biodiversity and Its Conservation and Environmental Pollution and Management.
SEMESTER 2:			
5	CCH21	General Chemistry - II	<ul style="list-style-type: none"> ➤ The student will understand the basic properties of elements and their Compounds of s & p –block elements. ➤ Explain the reaction mechanisms of alkanes,

			<p>alkenes and alkynes and predict the products.</p> <ul style="list-style-type: none"> ➤ Classify dienes and analyse the stability of alkanes, alkenes and cycloalkanes. ➤ Recollect the basic concepts of Quantum Theory and Thermodynamics. ➤ Calculate the thermodynamic parameters using thermo chemical equations and data.
6	CAMA25C	Mathematics II	<ul style="list-style-type: none"> ➤ Completion of the course, the student will be able acquire knowledge about Application of Integration, Partial Differential Equations, Laplace Transformations and Vector Analysis
7	CPE20C	Professional English II	<ul style="list-style-type: none"> ➤ Students will apply it at their work place for writing purposes such as Presentation/official drafting/administrative communication and use it for document/project/report/research paper writing. ➤ Students will be made to evaluate the correct & error-free writing by being well versed in rules of English grammar & cultivate relevant technical style of communication & presentation at their work place & also for academic uses. ➤ Students will apply techniques for developing inter-personal communication skills and positive attitude leading to their

			professional competence.
8	CPCH22	Practical -Volumetric Analysis	<ul style="list-style-type: none"> ➤ Upon completing the course, the student will be able to learn about the volumetric estimation of given substance. ➤ Use different principles of volumetric analysis such as Acidimetry, Iodometry, Complexometry, Dichrometry, Precipitation titration and Permanganometry.