

K.S.Rangasamy College of Arts & Science, (Autonomous), Tiruchengode-637 215

Department of Chemistry – PG

Local / National / Regional / Global


SEMESTER I

COURSE CODE	COURSE NAME	NEED			REMARKS	
		Local	National	Regional		Global
18PCHM101	Core I: Organic Chemistry I			✓		To understand the chemistry of antibiotics, vitamins and stereochemistry
18PCHM102	Core II: Inorganic Chemistry I	✓				To analyze the analytical tools used in nuclear chemistry
18PCHM103	Core III: Physical Chemistry I		✓			To inculcate the principles of thermodynamics, quantum chemistry and group theory
18PCHM104	Core IV: Spectroscopy	✓				To study the principles of UV-Vis and IR spectroscopy techniques and its applications.
18PCHMP101	Core Practical I: Organic Chemistry Practical I		✓			To learn about the qualitative analyses by separation and preparation of organic compounds
18PCHMP102	Core Practical II: Inorganic Chemistry Practical I			✓		To analyze an inorganic compound systematically by laboratory techniques

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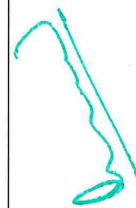
SEMESTER II

COURSE CODE	COURSE NAME	NEED			REMARKS
		Local	National	Regional	
18PCHM201	Core V: Organic Chemistry II			✓	To identify the mechanism of elimination and addition reactions
18PCHM202	Core VI: Inorganic Chemistry II		✓		To evaluate the stability and stereo chemical aspects of inorganic complexes
18PCHM203	Core VII: Physical Chemistry II		✓		To gain the knowledge about statistical thermodynamics, chemical kinetics and electrochemistry
18PCHMP201	Core Practical III: Organic Chemistry Practica III			✓	To have deep practical skill on estimation and preparation of organic compounds
18PCHMP202	Core Practical IV: Physical Chemistry Practical I		✓		To provide practical skills on Experiments in chemical kinetics, phase rule, Chemical equilibrium


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SEMESTER III

COURSE CODE	COURSE NAME	NEED			REMARKS
		Local	National	Regional	
18PCHM301	CoreVIII: Organic Chemistry III		✓		To study about reagents used in organic synthesis and conformational analysis of simple and substituted compounds
18PCHM302	CoreIX: Inorganic ChemistryIII			✓	To gain knowledge about the uses of IR and Raman in inorganic compounds
18PCHL301	ElectiveII: Photo Chemistry			✓	To learn about the applications of photochemistry in various field like organic, inorganic and physical chemistry.
18PCHMP301	Core PracticalIV: Inorganic ChemistryPracticalIII		✓		To provide practical skills in quantitative analysis of complex materials gravimetrically
18PCHMP302	Core PracticalVI: Physical ChemistryPracticalII	✓			To have a practical skill on experiments in chemical kinetics, electrochemistry and polarography
18PPHCHI301	IDCI: Solid State Physics		✓		To impart knowledge on the structure of crystals, X-ray diffraction and theories of Magnetism.



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SEMESTER IV

COURSE CODE	COURSE NAME	NEED			REMARKS	
		Local	National	Regional		Global
18PCHM401	CoreX: Analytical Chemistry	✓				To impart knowledge about various techniques which are used in chemistry like colorimetric, voltammetry and Mass spectra etc.
18PCHM402	Core XI: Physical Chemistry III		✓			Estimate the principles of kinetics and various techniques to study the kinetics of reaction
18PCHPR401	Project & Viva - Voce			✓		To make the students to do Project planning and execution of projects.

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ELECTIVE I & II

COURSE CODE	COURSE NAME	NEED			REMARKS
		Local	National	Regional	
18PCHEL201	Elective I: Polymer Chemistry I	✓			To understand coordination polymerization and the catalysts that enhances
18PCHEL202	Elective I: Bio-inorganic chemistry I		✓		To know about the mechanism of binding interactions of metal complexes with biomolecules and metal based drug action.
18PCHEL203	Elective I: Principles and applications of drug design and discovery			✓	To know about drug Identification and Validation Steps in drug discovery
18PCHEL301	Elective II: Photochemistry		✓		To learn applicatins of photochemistry in various field
18PCHEL302	Elective II: Bio-inorganic chemistry II			✓	To gain knowledge about essential trace elements in biological systems
18PCHEL303	Elective II: Polymer Chemistry II	✓			To gain knowledge about Coordination polymerization and the catalysts that enhances


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