

K.S.Rangasamy College of Arts& Science, (Autonomous), Tiruchengode-637 215
Department of Chemistry – UG
Local / National / Regional / Global


SEMESTER I

COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
18UCHM101	Core I: General Chemistry I		✓			To know the basic concepts about atom and periodic properties
18UCHM102	Core II: Industrial Chemistry				✓	To understand the principles involved in the manufacture of glass and paper
18UMACHA101	Allied I: Algebra and Differential Calculus		✓			To know about matrices and various method of solving algebraic equations
18UCHMP101	Core Practical I: Volumetric and Inorganic Preparations			✓		To enable the students to acquire the quantitative skills in volumetric analysis.


PRINCIPAL
K. S. Rangasamy College of Arts & Science
(Autonomous)
TIRUCHENGODE - 637 215
Namakkal-Dt. Tamil Nadu, INDIA

SEMESTER II

COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
18UCHM201	Core III: General Chemistry II			✓		To understand knowledge of the chemical bonding and preparation and properties of alkynes and cycloalkanes.
18UCHM202	Core IV: Pharmaceutical Chemistry				✓	To recognize the chemistry behind medicinal plants and anti-bacterial drugs
18UMACHA201	Allied II : Integral Calculus and Vector Calculus		✓			To study in detail about vector differentiation and vector integration
18UCHMP201	Core Practical II: Organic Qualitative Analysis	✓				To develop skills in analysing organic qualitative compounds


 PRINCIPAL
 S. Rangasamy College of Arts & Science
 (Autonomous)
 TIRUCHENGODE - 637 215
 Namakkal-Dt. Tamil Nadu, INDIA.

SEMESTER III

COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
18UCHM301	Core V: General Chemistry III		✓			To recognize the preparation and properties of aldehydes, ketones and benzene
18UPHCHA301	Allied III: Physics I			✓		To understand the on the basic principles of Mechanics and the concepts of various properties of matter
18UCHMP301	Core Practical III: Inorganic Qualitative Analysis			✓		To develop analytical skills in inorganic qualitative analysis
18UPHCHAP301	Allied Practical I: Physics I			✓		To provide basic skills in measurements using microscope, telescope, spectrometer, potentiometer etc.
18UCHSB301	Food Chemistry				✓	To empathize adulteration in food and recognize the chemistry of food poisoning


 PRINC
 M. S. Rangasamy Colley,
 (Autonomous)
 TIRUC-HENGODE - 637 215
 Namakkal-Dt. Tamil Nadu, INDIA

SEMESTER IV

COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
18UCHM401	Core VI: General Chemistry IV			✓		To know the properties and preparations of carboxylic acids, dicarboxylic acids, ethers and nitro compounds
18UPHCHA401	Allied IV: Physics II	✓				To understand basic principles of Atomic physics, Nuclear Physics, Basic Electronics and Digital Electronics
18UCHMP401	Core Practical IV: Physical Practical			✓		To provide practical skills on experiments in chemical kinetics, phase rule, Chemical equilibrium
18UPHCHAP401	Allied Practical II: Physics II			✓		To impart knowledge in properties of matter, light and electricity
18UCHSB401	SBC II: Textile Chemistry	✓				To estimate the characteristics of different textile fibres, yarn and fabric



PRINCIPAL
 K. S. Rangasamy College of Arts & Science
 (Autonomous)
 TIRUCHENGODE - 637 215
 Namakkal-Dt. Tamil Nadu, INDIA

SEMESTER V

COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
18UCHM501	Core VII: Inorganic Chemistry I		✓			To illustrate characteristics of d-block elements and fundamental properties of lanthanides and actinides
18UCHM502	Core VIII: Organic Chemistry I			✓		To understand stereochemistry and conformational analysis of various saccharides.
18UCHM503	Core IX: Physical Chemistry I		✓			To recognize the phase rule and its associated systems and kinetics studies
18UCHM504	Core X: Analytical Chemistry		✓			To study the fundamentals in chromatographic techniques
18UCHMPP501	Core Practical IV: Gravimetric Estimation and Organic Preparation			✓		To cater the laboratory proficiency for the estimation of chemical compounds by gravimetry techniques
18UCHSB501	SBC III: Polymer Chemistry	✓				To study the synthesizing techniques involved in preparation



PRINCIPAL

K. S. Rangasamy College of Arts & Sciences
(Autonomous)
TIRUCHENGODE - 637 215
Namakkal-Dt. Tamil Nadu, INDIA

SEMESTER VI

COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
18UCHM601	Core XI: Inorganic Chemistry II			✓		To ascertain the hypothesis and rules of the coordination chemistry
18UCHM602	Core XII: Organic Chemistry II		✓			To device the mechanism of various organic reactions
18UCHM603	Core XIII: Physical Chemistry II		✓			To compute different types of cells and titrimetric techniques. Also to understand symmetry elements and operations
18UCHPR601	Project & Viva-Voce			✓		To make them understand the concepts of Project planning and execution of projects.
18UCHSB601	SBC IV: Agricultural Chemistry			✓		To understand the types of pesticides and insecticides widely used



PRINCIPAL
College of Arts & Sci:

K. S. Rangasamy
(Autonomous)

TIRUCHENGODE - 637 215

Namakkal-Dt. Tamil Nadu, INDIA

ELECTIVE I & II

COURSE CODE	COURSE NAME	NEED				REMARKS
		Local	National	Regional	Global	
18UCHEM501	Elective I: Spectroscopy I	✓				To evaluate the principles and theories of IR spectroscopy and NMR
18UCHEM502	Elective I: Spectroscopy II	✓				To paraphrase the concepts and applications of ESR and Mossbauer spectroscopy
18UCHEM601	Elective II: Green Chemistry and Nano Chemistry		✓			To know the principles and processes of green chemistry and also know about fundamentals of Nano chemistry and types of nanomaterials
18UCHEM602	Elective II: Bio-Inorganic Chemistry			✓		To understand the role of metals and its complexes in the synthesis of drugs


HOD


PRINCIPAL
 K.S. Rangasamy College of Arts & Science
 (Autonomous)
 TIRUCHENGODE - 637 215
 Namakkal-Dt. Tamil Nadu, INDIA


Principal