



SIR C R REDDY COLLEGE FOR WOMEN (Estd : 1987)

Affiliated to ADIKAVI NANNAYA UNIVERSITY, Rajamahendravaram

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COURSEOUTCOMES

DEPARTMENTOFCHEMISTRY

SIR C R REDDY COLLEGE FOR WOMEN, VATLURU ELURU
CBCS/SEMESTER SYSTEM (W.E.F 2020-2021 ADMITTED BATCH)

COURSE OUTCOMES FOR FIRST SEMESTER

B.Sc.	Semester-I	Credits:4
Course:1	Inorganic and Physical Chemistry	Hrs/Wk:4

Course outcomes:

At the end of the course, the student will be able to:

CO-01 :

Understand the basic concepts of p-block elements

CO-02:

The students could be able to know the electronic configurations of d-block elements.

CO-03:

To acquire the knowledge of periodic properties and f-block elements.

CO-04:

Explain the difference between solid, liquid and gases in terms of intermolecular interactions.

CO-05:

Apply the concepts of gas equations, pH and electrolytes while studying other chemistry courses.

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Course Outcomes FOR II SEMESTER

SEMESTER: II

Course-2: Organic & General Chemistry

B.Sc.	Semester-II	Credits: 4
Course: 2	Organic & General Chemistry	Hrs/Wk: 4

Course outcomes:

At the end of the course, the student will be able to:

CO-01:

Acquire knowledge on preparative methods and properties of alkanes and cyclohexane conformations with energy diagram. Acquire knowledge on preparative methods and properties of alkenes and alkynes.

CO-02:

Learn and identify many organic reaction mechanisms including Free Radical Substitution, Electrophilic Addition and Electrophilic Aromatic Substitution.

CO-03:

Understand adsorption, types of adsorption, adsorption isotherm and its applications.

CO-04:

Understand VBT, Hybridisation and MOT with its application.
Gain knowledge on HSAB principle and its importance.

CO-05:

Correlate and describe the stereochemical properties of organic compounds and reactions.

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Course Outcomes For III SEMESTER

B.Sc.	Semester- III	Credits:4
Course:3	Organic chemistry & Spectroscopy	Hrs/Wk:4

Course outcomes:

At the end of the course, the student will be able to

CO-01:

Understand preparation, properties and reactions of haloalkanes, haloarenes and oxygen containing functional groups.

CO-02:

Use the synthetic chemistry learnt in this course to do functional group transformations.

CO-03:

Acquire knowledge on preparations of carboxylic acids and their derivatives

CO-04:

Understand the transitions, rotations, vibrations in spectroscopy

CO-05:

Know about the types of vibrations and finger print region

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COURSE OUTCOMES

SEMESTER: IV

Course 4 : Inorganic, Organic & Physical Chemistry

B.Sc.	Semester-IV	Credits: 04
Course: 4	Inorganic, Organic and Physical Chemistry	Hrs/Wk: 4

Course outcomes:

At the end of the course, the student will be able to;

CO-01:

To learn about the laws of absorption of light energy by molecules and subsequent photochemical reactions.

CO-02:

To understand the concept of quantum efficiency and mechanisms of photochemical reactions.

CO-03:

Know the synthesis, structure and reactivity of main organometallic group

CO-04:

Gain knowledge on synthesis and uses of amino acids and proteins and their role in our body

CO-05:

Know the knowledge on biomolecules uses

Know the synthesis and reactivity of amines and nitro compounds

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Course Outcomes For IV Semester

Course 5: Inorganic & Physical Chemistry

B. Sc	Semester-IV (Skill Enhancement Course)	Credits: 4
Course: 5	INORGANIC & GENERAL CHEMISTRY	Hrs/Wk: 4

Course outcomes:

At the end of the course, the student will be able to:

CO-01:

Analyse the various methods of determination of reaction

CO-02:

Recognize the electrochemical processes

CO-03:

Evaluate electrodes and cells

CO-04:

To learn the importance of inorganic elements in vital systems

CO-05:

Analyse a scientific study of the kinetics of a chemical reaction

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Course Outcomes For V Semester

B. Sc	Semester-V (Skill Enhancement Course-Elective)	Credits:4
Course: 6B	Analytical Methods in Chemistry-1	Hrs/Wk:4

Course Outcomes:

After successful completion of the course the student will be able to:

CO-01:

Demonstrate the usage of common laboratory apparatus used in quantitative analysis.

CO-02:

Acquire knowledge on the basic principles of volumetric analysis and gravimetric analysis.
Understand the theories of different types of titrations.

CO-03:

Gain knowledge on different types of errors and their minimization methods.

CO-04:

Identify the importance of solvent extraction and ion exchange method.

CO-05:

Demonstrate skills related to analysis of water using different techniques.

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COURSEOUTCOMES

Semester-V :Paper:7B

B. Sc	Semester–V(SkillEnhancementCourse- Elective)	Credits:4
Course: 7B	AnalyticalMethods in Chemistry-2	Hrs/Wk:4

CourseOutcomes:

Studentsaftersuccessfulcompletionofthecoursewillbeable to:

CO-01:

Identifytheimportanceofchromatographyintheseperationandidentificationofcompoundsin a mixture

CO-02:

Acquirea criticalknowledgeonvariouschromatographic techniques.

CO-03:

Demonstrateskillsrelatedtoanalysisofwaterusingdifferenttechniques.

CO-04:

Understandtheprinciplesofspectrochemistryinthedeterminationofmetal ions.

CO-05:

Comprehendtheapplicationsofatomic spectroscopy.