



# चौधरी महादेव प्रसाद महाविद्यालय

## C. M. P. DEGREE COLLEGE

(A Constituent P.G. College, University of Allahabad)

Under the Strengthening Component of DBT Star College Scheme

Website: [www.cmpcollege.ac.in](http://www.cmpcollege.ac.in)



### Course outcome

#### B.Sc. I

#### Inorganic Chemistry

CO1: To know atomic and nuclear structure of atom.

CO2: To know the properties of the elements.

CO3: To Know the chemical bonding and their characters.

CO4: To Know about Co-Ordination Chemistry.

CO5: To know about Electrode potential.

CO6: To know about Chemistry of Zero group and S-Block elements.

CO7: To know the method of extraction of elements.

CO8: To know the preparations, properties and uses of Heavy water, lithium tetrahydroaluminate, lithium stearate etc.

#### Organic Chemistry

CO1: To Know about Structure and bonding.

CO2: To know about mechanism of organic reactions.

CO3: To know about Stereochemistry of organic compounds.

CO4: To know about alkanes and cycloalkens.

CO5: To learn about alkenes, Dienes and alkynes.

CO6: To know about arenes and aromaticity.

CO7: To know about alkyl and arylhalides.

#### Physical Chemistry

CO1: Understand about different theories of Gases and its law.

CO2: Learn about thermodynamics.

CO3: Learn about Chemical kinetics and its application.

CO4: Understand about Thermochemistry.

CO5: To know about Electrochemistry.

CO6: To know about Chemical equilibrium.

**Mahatma Gandhi Marg, George Town, Prayagraj-211002, U.P.**

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### Chemistry Practical (Inorganic, Organic and Physical)

CO: Learn about Elemental analysis of organic & inorganic compounds, qualitative & quantitative analysis of organic and inorganic compounds. Application of titration methods.

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## B.Sc. II

### Inorganic Chemistry

- CO1: To know about shapes of molecules.
- CO2: To know about p-Block elements.
- CO3: To know about d-Block elements.
- CO4: To know about Coordination chemistry.
- CO5: To know about Extraction of elements.
- CO6: To know about inorganic compound-preparation, properties and uses.
- CO7: To know about structure and bonding.

### Organic Chemistry

- CO1: To know about electromagnetic spectrum.
- CO2: To know about alcohols.
- CO3: To know about Phenols.
- CO4: To know about ethers and epoxides.
- CO5: To know about aldehydes and ketones.
- CO6: To know about carboxylic acids.
- CO7: To know about organic compound of nitrogen.

### Physical Chemistry

- CO1: To know about Thermodynamics.
- CO2: To know about Phase equilibria.
- CO3: To know about electrochemical cells.
- CO4: To know about Surface phenomenon.
- CO5: To know about Physical properties and chemical constitution.
- CO6: To know about Colloidal State.

### Chemistry Practical (Inorganic, Organic and Physical)

- CO: Students can learn about gravimetric analysis, organic preparation and physical chemistry experiments.



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## B.Sc. III

### Inorganic chemistry

- CO1: To know about theories of covalent bond.
- CO2: To know about theories of coordinate bond.
- CO3: To know about metals and metallurgy.
- CO4: To know about f-block elements.
- CO5: To know about inorganic chains, rings and cages.
- CO6: To know about structures and characteristics of solids.
- CO7: To know about chemical industries.
- CO8: To know about environmental pollution.
- CO9: To know about metal ions in biological systems.

### Organic chemistry

- CO1: To know about spectroscopy.
- CO2: To know about organometallic compounds.
- CO3: To Know About Organo-sulphur Compounds.
- CO4: To know about heterocyclic compounds.
- CO5: To know about organic synthesis via enolates.
- CO6: To know about carbohydrates.
- CO7: To Know About Amino Acids, Peptides and Proteins.
- CO8: To know about synthetic polymers.

### Physical chemistry

- CO1: To know about thermodynamics.
- CO2: To know about chemical kinetics and catalysis.
- CO3: To know about photochemistry.
- CO4: To know about electromotive force.
- CO5: To know about atomic structure.
- CO6: To know about nuclear chemistry.



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### Chemistry Practical (Inorganic, Organic and physical)

CO: Identification and estimation of organic compounds, hydrolysis of acids, inorganic analysis and preparation as well as chromatographic techniques.

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