



GOVERNMENT GENERAL DEGREE COLLEGE, RANIBANDH

Vill. + P.O.: Rautara *P.S.: Barikul *Dist.: Bankura *Pin Code: 722135 *West Bengal *India

Ph.: 03243267236 *e-mail: govtgencol.ranibandh@gmail.com *Website: ranibandhgovtcollege.org

DEPARTMENT OF CHEMISTRY

Course Code	Course Title	Programme specific Outcome	Course Outcome
SH/CHEM/103/GE-1	Atomic Structure, Chemical Periodicity, Acids and Bases, Redox Reactions, General Organic chemistry and Aliphatic Hydrocarbons;	1. Demonstrate, solve and an understanding of major concepts in all disciplines of chemistry 2. Gain the knowledge of Organic Chemistry through practical experiments.	1. To understand fundamental organic and inorganic chemistry. 2. To learn about reaction mechanism and reactivity of simple molecule. 3. Identification of functional group of unknown Organic Compound 4. Determination of boiling points.
SH/CHEM/203/GE-2	Bonding & Molecular Structure, Comparative studies of p-Block Elements; States of Matter and Chemical Kinetics	1. Understanding the basic general chemistry with the concepts of bonding and structure. 2. Students learn the laws and their application. 3. Gain the knowledge of Physical Chemistry through practical experiments.	Students, attending practical classes, understand how to determine 1. Viscosity co-efficient of an unknown liquid. 2. Surface tension of unknown solution 3. Study the kinetic of various reactions
SH/CHEM/303/GE-3	Organic Chemistry-II; Chemical Energetics, Chemical Equilibrium & Conductance	1. Gain knowledge on thermodynamic and conductometric study. 2. Application theoretical knowledge in practical experiment.	1. Identification of a pure Organic Compound 2. Conductometric titration 3. Determination of dissociation constant of a weak acid.



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SH/CHEM/403/GE-4	Fundamental Group Organic Chemistry, Inorganic Chemistry; Coordination Chemistry and Transition Metal Chemistry	1. Gain knowledge on industrial chemistry study. 2. Application analytical chemistry knowledge in practical experiment	Students, attending practical classes, understand how to determine Estimation of the total hardness of water sample by EDTA titration. 1. Complexometric estimation of metal ions
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Programme Outcome:

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PO-1	Achieve the skill required to succeed for doing jobs in Govt. and private sectors.
PO-2	Identify and solve complex scientific problems in research at national and international level.
PO-3	Understand the concept of chemistry to interrelated and interact to others subjects like mathematics, physics, biology etc.
PO-4	Learn the laboratory skills and interpret the knowledge entirely in the working environment.
PO-5	The course fulfils to produce competent chemists who can think and work independently in chemicals laboratories.
PO-6	Investigate chemicals problems using scientific tools for analysis and interpretation.
PO-7	Select, design and apply appropriate experimental techniques along with IT tools to solve chemicals problem
PO-8	Communicate effectively through report writing, documentation and effective presentation.
PO-9	The present curriculum will not only advance their knowledge and understanding of the subject but will also increase the ability of critical thinking, development of scientific attitude, enhance communication skill, social interaction and recognize the ethical values system.