

Department of Chemistry, Karimganj College <u>Course Objectives and Learning outcomes</u>

Paper	Objective	Learning Outcomes
CHMHCC-101	To have an in depth knowledge on the	
*	funadamentals of inorganic chemistry.	
		on the concepts of quantum mechanics,
		the different types and modern
		approaches of chemical bonding, the
		concepts of periodicity in properties of
		elements and redox reactions and the
		basic principles of volumetric analysis
		and metallurgy.
CHMHCC-102	To introduce the students to know the	These enable the students to understand
	behaviour of real & ideal gases and	the various phenomena and properties of
CID MICC 201	systems, crystal structure, band theory.	solid, liquid and gaseous substances.
CHMHCC-201	To impart knowledge on basic organic	This introduces students to various
	chemistry.	aspects of fundamental organic chemistry
		and various phenomena associated with them. These concepts may be used for
		further studies of organic chemistry,
		particularly for problem solving and
		reaction designing.
CHMHCC-202	This paper provides insight on	This paper allows the student to gather
	chemical thermodynamics, chemical	knowledge on the equilibrium and
	equilibrium and colligative properties	thermodynamic properties of chemical
	and their mathematical expressions.	reactions and also the various colligative
CID GIGG 201	The Control of the last state of the	properties of the solutions.
CHMHCC-301	To familiarize students with the	This paper allows students to understand
	chemistry of s- and p- block elements,	the structure and properties of different
	acid-bases, noble gases and metallurgy	compounds of s-& p- block, explain the
		chemistry of noble gases, acid-base and
		inorganic polymers. It also helps students
		gain knowledge of the fundamental
		principles of metallurgy.
CHMHCC-302	This paper aims to import knowledge	The study of this pages will small a the
CHMHCC-302	This paper aims to impart knowledge of organic compound synthesis	The study of this paper will enable the students to design the path of organic
	through functional group conversion.	synthesis of high yield and retro organic
	This paper also designed to provide	synthesis.
	knowledge of the mechanism i.e. the	Symmotics.
	path followed by the reaction.	
CHMHCC-303	This paper provides a detail idea about	Students can understand in detail about
	the phase equilibria, chemical kinetics,	phase diagram, existence of stable state
	catalysis and surface chemistry.	of substances in equilibrium. Kinetic
		study of reactions is the great outcome of
		the study of this paper. The study of
		surface chemistry will lead to get an idea about the industrial work.
CHMHCC-401	To provide insights into the concepts	
5.11.11.CC-401	To provide margina into the concepts	This paper also helps students to have an

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000	RUE CON CHMHCC-402	of Co-ordination chemistry and applications, extended to biologic systems and the chemistry of d- and block elements.	co-ordination compounds and their applications, the properties of d- and f-block elements and the importance of metal ions in biological systems.	
		preparation & properties of heterocyclic compounds of both natural and synthetic origin.	This enables students to learn the importance of heterocycles and to use them to prepare various important compounds for our daily use, particularly in the field of medicine, health, nutrition, industries etc.	
	CHMHCC-403	of electrolysis, electrochemical cells, and galvanic cell, conductometric and potentiometric titrations.	Students will be able to know the various electrochemical processes.	
		To provide knowledge on the selected types of naturally occurring organic compounds.	This enables students to learn various methods of synthesis, physiological importance and pharmaceutical applications of naturally occurring	
	CHMHCC-502	To provide knowledge on quantum chemistry, molecular spectroscopy and photochemistry.	organic compounds. Students can understand the properties of micro particles and can also calculate the observables on known wave functions. They will be equipped with the idea of spectroscopic methods and their application in applied field. Students will get an idea about the photochemical processes, laws of photochemistry and photosensitised reactions etc.	
	CHMHCC-601	To provide knowledge on the basic concepts of Organometallic chemistry and the principles involved in Qualitative analysis.	This paper enables students to understand the chemistry of organometallic compounds, their applications in catalysis and inorganic reaction mechanisms and the basic principles involved in the qualitative analysis of cations and anions.	
C	HMHCC-602	To impart knowledge on biomolecules like carbohydrate, dyes & polymers and spectroscopic applications.	This enables students to understand how energy is produced in living system; and with the use of instruments how different molecules and their structures may be identified and can be used for health, nutrition and industrial purposes.	

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