Department of Chemistry

S.No.	Course	Course Title	Course Outcomes (CO)
- 1	Code	Danani	On completion of this course of the terms of
1.	BS106	Paper I	On completion of this course, the students will be able to: CO1: Students will learn the basic knowledge of s.p groups of Periodic table CO2: Students will understand the general principles of Inorganic qualitative analysis CO3: Pupil will understand the Structural Theory in Organic Chemistry CO4: Pupil will understand Hydrocarbons reactivity and properties CO5: Student will be able to explore the Atomic structure and elementary quantum mechanics CO6: Student will be able to Gaseous and liquid state CO7: Students will learn Chemical Bonding, Molecular orbital theory CO8: Students will learn Evaluation of
2.	BS206	Paper-II	analytical data On completion of this course, the students will be able to: CO1: Students will explore the properties of p-block Elements, Interhalogens, Chemistry of Zero group elements, Chemistry of d-block elements CO2: Students will explore the physical and chemical properties of Aromatic Hydrocarbons CO3: Students will learn Dilute Solutions & Colligative Properties CO4: Students will explore the properties of Solutions CO5: Students will explore the properties of Solid-state Chemistry CO6: Students will learn the Theory of Quantitative Analysis
3.	BS 306	Paper – III	At the end of the course the students will be able to CO1: Students will learn the Theory of Quantitative Analysis Chemistry of f-block elements CO2: Students will learn the Theory of Quantitative Analysis Coordination Compounds chemistry

			CO3: Students will explore the properties of Metal carbonyls and Organometallic Chemistry CO4: Students will explore the physical and chemical properties of Carboxylic acids and derivatives and applications CO5: Student will learn interrelation of heat and
--	--	--	---

7.	BS 401	SEC-3: Materials and their Applications	After completion of the course, the students will be able to; CO1: Identify different types materials and their applications CO2: Acquire the knowledge of different types of alloys and their applications CO3: Identify different types of glass and ceramics CO4: Know the Chemicals required for cement preparation and the process of preparation CO5: Identify different types of polymers and their applications
8.	BS 401	SEC-4: Chemistry of Cosmetics and Food Processing	On completion of this course, the students will be able to: CO1: Identify the chemicals involved in cosmetic preparation, food processing and preservation CO2: Acquire the knowledge of preparation of certain cosmetics CO3: Understand the food processing procedure and apply in their daily life CO4: Identify adulterants and educate the people around them CO5: Run their own small-scale Industry
9.	BS 502	GE1 – Pharmaceuticals	After completion of the course, the students will be able to; CO1: Student learns history of pharmacy, development of pharmacy profession and industry in India. CO2: Understands various routes of drug administration, concept of dosage forms, unit operations involved in preparation of these dosage forms. CO3: Describes alternative system of medicines CO4: Explain the factors which influence the design of pharmaceutical dosage forms. CO5: Summarize the factors influencing formulation of various dosage form like solution
10.		GE2 Materials and their Applications	After completion of the course, the students will be able to; CO1: Identify different types materials and their applications CO2: Acquire the knowledge of different types of alloys and their applications

ifferent types of glass and
e Chemicals required for
ation and the process of
1
ifferent types of polymers
ations
letion of this course, the
ble to:
nd the theories of bonding,
pplications coordination
F F
nd the structures of
rboranes
vledge of different types of
d enable to analyse and
nt spectral data
anding reactions and
chanism of nitrogen
tional groups.
he knowledge of reaction
vs, and applications of
ics in studying enzyme
of this course, the students
nowledge of principle and
ent extractions
nd the classification of
omatographic techniques,
pents and solvent systems
e usage of different
ethods to find the purity
repared
ne given compounds
the knowledge of electro
ods
on of the course, the
able to;
stand the Kinetics of
eatalysis
e different types synthetic
s and their applications
s different Metallurgical
_
nd phase transfer catalysis
alysis
n Michaelis- Menten
nd phase transfer catalysis
•

1 /	DOCOF	DCC:	On1-4
14.	BS605	DSC:	On completion of this course, the students will be able to; CO1: To know the concepts of inorganic reaction mechanisms CO2: Know about biological significance of essential elements and toxicity of heavy metals CO3: To gain the knowledge of HSAB concept and stability of complexes CO4: To understand the principle of NMR spectroscopy and interpretation of spectrum CO5: Acquire the knowledge of mass
			spectrometry for the analysis of given
			sample
			CO6: Understand different types of
			carbohydrates and amino acids structures
15.	BS608A	DSE2A: Medicinal	On the completion of the course the
		Chemistry	students will be able to
			CO1: acquire the basics of medicinal
			chemistry, biophysical properties
			CO2: To know the mechanism of action of drugs and ADME properties of drugs
			CO3: To gain the knowledge of molecular
			messengers, health promoting drugs and deficiency disorders
			CO4: Understands the Biophysical and
			chemical properties of enzymes,
			hormones, vitamins
1.0	DOCOOD	DOEOD.	CO5: understand the Drug metabolism
16.	BS608B	DSE2B: Agricultural and	On completion of this course the students will be able to:
		Fuel Chemistry	CO1: Know different types of Pesticides
			and their structures
			CO2: Identifies potential pesticidal plants
			of India and the role of Neem in plant
			protection
			CO3: Understand soil fertility and the need of fertilizers
			CO4: Understand the importance and
			need of Organic farming
			CO5: Acquire the knowledge of refining
			process of crude oil and fuel derived from
			Biomass