Chemistry-Allied Department

Programme outcomes of Chemistry:

Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life.

PSO's	Upon completion, students of chemistry will be able to:	
PSO-1	Have a firm foundation in the fundamentals and application of current	
	and scientific theories in various branches of chemistry.	
PSO-2	Present the concepts of chemistry effectively and efficiently.	
PSO-3	Predict the structure and mechanism of Chemical compounds.	
PSO-4	Recognise and analyse qualitative and quantitative problems and plan strategies	
	for their solution.	
PSO-5	Explain the laboratory skills needed to design and interpret chemical research.	
PSO-6	Carry out scientific experiments as well as record and analyse the results of	
	such experiments.	
PSO-7	Develop skills in the safe-handling of chemicals and their usage in day today	
	life	
PSO-8	Develop entrepreneurial skills, empowered to fulfil the professional requiremen	
	and become self-dependent.	

Programme specific outcomes

Allied Chemistry -I (For Physics, Botany and Zoology)

Subject Code: SACH11

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	To learn about atomic structure and bonding.	PSO-2	U
CO-2	To learn the principles of reactions of organic compounds	PSO-3	An
CO-3	To study about photochemical reactions.	PSO-2	U
CO-4	To learn about the importance of polymers and polymer	PSO-2	U
	science		
CO-5	To study about lubricants and some cosmetics in the modern	PSO-5	Ар
	world.		

Semester-I

Allied Chemistry Practical -I (For Physics, Botany and Zoology)

Subject Code: SACHP1

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	Critical capacity to understand the procedures in	PSO-2	U
	order to define the common methods of analysis.		
CO-2	Use correct titrimetric procedure when carrying out	PSO-5	An
	titrations		
CO-3	Prepare the standard solution of different strength.	PSO-5	U
CO-4	Explain the acid base, permanganometry	PSO-6	An
	titrations with examples.		
CO-5	Apply knowledge of concentrations of solutions to	PSO-6	Ар
	everyday examples and estimate the strength of the		
	given unknown solution		

Allied Chemistry -II (For Physics, Botany and Zoology)

Subject Code: SACH21

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	To learn the chemistry of basic aromatic compounds	PSO-1	U
CO-2	To understand the nuclear particles and few nuclear	PSO-3	U
	reactions		
CO-3	To know about carbohydrates, amino acids, proteins and	PSO-2	An
	nucleic acid.		
CO-4	To study about fuels, fertilizers, cement and glass.	PSO-2	Ар
CO-5	To know about some common diseases and the drugs used.	PSO-5	U

Semester-II

Allied Chemistry Practical -II (For Physics, Botany and Zoology)

Subject Code: SACHP2

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	To analysis inorganic simple salt containing one acidic	PSO-3	An
	radical and one basic radical		
CO-2	Identify the interfering radical present in	PSO-2	U
	the given inorganic salt mixture		
CO-3	Separate the radicals into groups	PSO-1	U
CO-4	Prepare a sodium carbonate solution in ppm units	PSO-1	U
CO-5	Acquire skill to analyze the given sample	PSO-3	Ар
	qualitatively and quantitatively.		

Semester-III Non-Major Elective-I for 2nd year Maths Students Food Science Subject Code: SNCH3A

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	List the important nutrients of healthy diet	PSO-1	U
CO-2	Analyses the food additives.	PSO-2	An
CO-3	Evaluate the adulterants present in food	PSO-1	Ev
CO-4	Explain the different food preservation techniques	PSO-4	U
CO-5	Summarize the various quality standards.	PSO-5	U

Semester-IV Non-Major Elective-II for 2nd year Maths Students

Applied Chemistry

Subject Code: SNCH4B

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	To explain the manufacture of soap and detergents.	PSO-1	An
CO-2	Explain the different fertilizers and applications.	PSO-3	Ар
CO-3	To learn about the importance of polymers and polymer	PSO-2	U
	science		
CO-4	To study about the chemical pharmacy and their uses.	PSO-2	U
CO-5	To know about some uses in everyday life.	PSO-5	Ар

Allied Chemistry -I (For Physics, Botany and Zoology)

Subject Code: AACH11

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	To learn about atomic structure and bonding.	PSO-2	U
CO-2	To learn the principles of reactions of organic compounds	PSO-3	An
CO-3	To study about photochemical reactions.	PSO-2	U
CO-4	To learn about the importance of polymers and polymer	PSO-2	U
	science		
CO-5	To study about lubricants and some cosmetics in the modern	PSO-5	Ар
	world.		

Semester-I

Allied Chemistry Practical -I (For Physics, Botany and Zoology)

Subject Code: AACHP1

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	Critical capacity to understand the procedures in	PSO-2	U
	order to define the common methods of analysis.		
CO-2	Use correct titrimetric procedure when carrying out	PSO-5	An
	titrations		
CO-3	Prepare the standard solution of different strength.	PSO-5	U
CO-4	Explain the acid base, permanganometry	PSO-6	An
	titrations with examples.		
CO-5	Apply knowledge of concentrations of solutions to	PSO-6	Ар
	everyday examples and estimate the strength of the		
	given unknown solution		

Allied Chemistry -II (For Physics, Botany and Zoology)

Subject Code: AACH21

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	To learn the chemistry of basic aromatic compounds	PSO-1	U
CO-2	To understand the nuclear particles and few nuclear	PSO-3	U
	reactions		
CO-3	To know about carbohydrates, amino acids, proteins and	PSO-2	An
	nucleic acid.		
CO-4	To study about fuels, fertilizers, cement and glass.	PSO-2	Ар
CO-5	To know about some common diseases and the drugs used.	PSO-5	U

Semester-II

Allied Chemistry Practical -II (For Physics, Botany and Zoology)

Subject Code: AACHP2

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	To analysis inorganic simple salt containing one acidic	PSO-3	An
	radical and one basic radical		
CO-2	Identify the interfering radical present in	PSO-2	U
	the given inorganic salt mixture		
CO-3	Separate the radicals into groups	PSO-1	U
CO-4	Prepare a sodium carbonate solution in ppm units	PSO-1	U
CO-5	Acquire skill to analyze the given sample	PSO-3	Ар
	qualitatively and quantitatively.		

Semester-III Non-Major Elective-I for 2nd year Maths Students Food Science Subject Code: ANCH31

PSOs Cognitive CO **Course Outcomes** Level No addressed CO-1 List the important nutrients of healthy diet PSO-1 U Analyses the food additives. CO-2 PSO-2 An Evaluate the adulterants present in food CO-3 PSO-1 Ev CO-4 Explain the different food preservation techniques PSO-4 U Summarize the various quality standards. CO-5 PSO-5 U

Semester-IV Non-Major Elective-II for 2nd year Maths Students

Applied Chemistry

Subject Code: ANCH42

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	To explain the manufacture of soap and detergents.	PSO-1	An
CO-2	Explain the different fertilizers and applications.	PSO-3	Ар
CO-3	To learn about the importance of polymers and polymer	PSO-2	U
	science		
CO-4	To study about the chemical pharmacy and their uses.	PSO-2	U
CO-5	To know about some uses in everyday life.	PSO-5	Ар

Allied Chemistry -I (For Physics, Botany and Zoology) Subject Code: CACH11

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	Apply theories of chemical bonding predict the geometry of	PSO-2	An
	molecules and their stability		
CO-2	Analyze the types of reagents and intermediates involved in	PSO-3	An
	different organic reactions.		
CO-3	Explain the methods of preparation and uses of important	PSO-5	U
	drugs for long life.		
CO-4	Outline the preparation, properties and applications of	PSO-2	Ар
	cement, glass and explosives.		
CO-5	Discuss the methods of preparation and importance of drugs	PSO-1	Ар
	for long life		

Allied Chemistry Practical -I (For Physics, Botany and Zoology)

Subject Code: CACHP1

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	Critical capacity to understand the procedures in	PSO-2	U
	order to define the common methods of analysis.		
CO-2	Use correct titrimetric procedure when carrying out	PSO-5	An
	titrations		
CO-3	Prepare the standard solution of different strength.	PSO-5	U
CO-4	Explain the acid base, permanganometry	PSO-6	An
	titrations with examples.		
CO-5	Apply knowledge of concentrations of solutions to	PSO-6	Ар
	everyday examples and estimate the strength of the		
	given unknown solution		

Allied Chemistry -II (For Physics, Botany and Zoology) Subject Code: CACH21

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	Analyse the chemical and biological applications of	PSO-2	An
	coordination compounds.		
CO-2	Explain the electronic effects and apply these to organic	PSO-3	U
	compounds.		
CO-3	Define electromotive force and analyse its uses.	PSO-2	An
CO-4	Discuss structure and biological functions of carbohydrates,	PSO-2	U
	Amino acids.		
CO-5	Analyse common diseases and important tablets used to cure	PSO-5	An
	the diseases.		

Semester-II

Allied Chemistry Practical -II (For Physics, Botany and Zoology)

Subject Code: CACHP2

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	To analysis inorganic simple salt containing one acidic	PSO-3	An
	radical and one basic radical		
CO-2	Identify the interfering radical present in	PSO-2	U
	the given inorganic salt mixture		
CO-3	Separate the radicals into groups	PSO-1	U
CO-4	Prepare a sodium carbonate solution in ppm units	PSO-1	U
CO-5	Acquire skill to analyze the given sample	PSO-3	Ар
	qualitatively and quantitatively.		

Semester-III Non-Major Elective-I for 2nd year Maths Students Food Science

Subject Code: CNCH31

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	List the important nutrients of healthy diet	PSO-1	U
CO-2	Analyses the food additives.	PSO-2	An
CO-3	Evaluate the adulterants present in food	PSO-1	Ev
CO-4	Explain the different food preservation techniques	PSO-4	U
CO-5	Summarize the various quality standards.	PSO-5	U

Semester-IV

Non-Major Elective-II for 2nd year Maths Students

Chemistry in Ever Day Life

Subject Code: CNCH42

CO	Course Outcomes	PSOs	Cognitive
No		addressed	Level
CO-1	Study on the chemicals used in cosmetics	PSO-1	U
CO-2	Know about soaps and detergents.	PSO-3	U
CO-3	Explain about the nutrients from food materials.	PSO-2	U
CO-4	Discuss the fertilizers and pesticides necessary for the grow	PSO-2	Ev
	of plants		
CO-5	Know about the drugs.	PSO-5	An