

Programme: M.Sc. Chemistry

SEMESTER - II					
ElectiveI I A	Energy and E	Environmen	tal Chemistry		
19PENC11	Hrs / Week	Hrs / Week: 6 Hr		Credits: 4	
Vision:					
	To protect and improv	e the enviror	nment as a valuable asse	t agai <mark>nst</mark>	
	hazardous chemicals a	nd energy re	sources.		
Mission:					
	To learn the various typ	pes of sonoc	hemical reactions.		
	To summarise renewab	ole and non r	enewable energy resourc	es.	
	To gain knowledge abo	out Environn	nent and its problem solv	ving techniques.	
C O I					

Course Outcome:

H H		12	1112.0
CO No.	Upon completion of this course, students will be able	PSO	CL
		addressed	-
CO - 1	compare heterogeneous liquid- liquid and heterogeneous solid- liquid reactions	2	An
CO - 2	distinguish between renewable and non- renewable energy resources.	5,6	An
CO - 3	explain the construction, working and applications of primary and secondary batteries.	4,8	Ар
CO - 4	classify and compare the fuels based on their appearance such as solid, liquid and gas.	7	Cr
CO - 5	demonstrate the Orsat process for flue gas analysis.	8	Ap
CO - 6	identify a catalyst used in fine chemical synthesis.	4,6	Un
CO - 7	sketch the natural cycles of environment such as the hydrological, oxygen and nitrogen cycles.	6	Cr
CO - 8	differentiate chemical and photochemical reactions occurs in atmosphere.	1,5	An

Criterion I

SSR Cycle V

	Semester III	[
Elective III B. Chemical Instrumentation			
Course Code:21PCHE32	Hrs/Week:4	Hrs/Sem:60	Credits:4

Course Outcome:

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CO No.	Upon completion of this course, students will be able to	PSO addressed	CL
CO1	demonstrate automatic operation and computer control	1,5	Ар
CO2	precise control of current and voltage.	6,8	Ap
CO3	differentiate modulation and demodulation	5	An
CO4	point out limitation on amplifier performance	1	Cr
CO5	predict binary logic concepts, logic gates and multi- vibrators	7	Un
CO6	distinguish visual, filter and spectrophotometers.	7,8	Ap
	interpret the optimal value of adjustable parameters		
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Criterion I

SSR Cycle V

Semester III			
Self-Study Course – Course on Competitive Exams			
Code: 21PCHSS31	Credits: 2		

Course Outcome:

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CO No.	Upon completion of this course, students will be able to	PSO addressed	CL
CO 1	solve real life problems requiring interpretation and comparison of various representations of ratios	2	Ap
CO 2	distinguish between proportional and non-proportional situations and when appropriate apply proportional reasoning	1, 2	An
CO 3	solve problems applying probabilistic reasoning to make decisions	2	Ар
CO 4	evaluate claims based on empirical, theoretical and subjective probabilities	1, 4	Re
CO 5	solve problems using high speed mental calculations	7	Ар
CO 6	understand the basic concepts of logical reasoning skills	1, 2	Un

Luis Rose

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Criterion I

SSR Cycle V

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