Course	Course Name	L-T-P- Credits	Yea	r of uction		
CH409	ORGANIC CHEMICAL TECHNOLOGY	3-0-0-3	20	<u>16</u>		
Prerequisite : Nil						
Course Objectives						
 To expose conversion of raw materials into useful organic products. To impart unit operations and unit processes employed in the manufacture of organic products. To familiarize the manufacturing processes of natural organic products and synthetic organic chemicals. 						
Syllabus	TECHNOLOU		1L			
Food Proce	essing, Soaps And Detergents, Synthetic Organic C	hemical Indu	stries			
 Expected Outcome The students will be able to understand the manufacturing of various inorganic and organic chemicals identify various process parameters and to prepare process flow diagrams. apply the concepts of unit operation and unit processes in the design of process plants 						
References	S:					
 George T. Austin, Shreve's Chemical Process Industries, McGraw-Hill International Editions, Gopala Rao M. and Marshall Sittig, Dryden's Outlines of Chemical Technology, Edited by Affiliated East - West Press Moulijn J. K., Makkee M. and van Diepen A,. "Chemical Process Technology", Wiley 						
	Course Plan					
Module	Contents		Hours	Sem. Exam Marks		
Ι	Natural products Industries I: general stud processing-food by products - leather- gelatin – vegetable oils-animal fats and oils –waxes.	y of food adhesives -	7	15%		
Π	Natural products Industries II: sugar. starches products-industrial alcohol by fermentati alcohol-beers, wines and liquors.	and related	6	15%		
	FIRST INTERNAL EXAMINA	ΓΙΟΝ				
III	Natural products Industries III- soaps and gycerine-pulp and paper: Raw materials, pulping recovery of chemicals, stock preparation and paper	detergents- g processes, ermaking.	8	15%		
IV	Synthetic Organic Chemical Industries I: Ma processes of formaldehyde-methanol-chlor trichloroethylene-perchloroethylene-vinyl acetaldehyde-acetone-vinyl acetate	nufacturing romethanes- chloride-	6	15%		

SECOND INTERNAL EXAMINATION					
V	Synthetic Organic Chemical Industries II: Manufacturing processes of cumene-acylonitrile-isoprene-butadiene-phenol- styrene-phthalic anhydride-maleic anhydride-nitrobenzene- aniline	8	20%		
VI	Synthetic Organic Chemical Industries III: general study of dyes and intermediates-pesticides-pharmaceuticals- biotechnology	7	20%		

END SEMESTEREXAMINATION

Question Paper Pattern:

Maximum Marks: 100

Exam Duration: 3 Hours

Part A: There shall be **Three questions** uniformly covering Modules 1 and 2, each carrying 15 marks, of which the student has to answer any **Two questions**. At the most 4 subdivisions can be there in one main question with a total of 15 marks for all the subdivisions put together.

(2 x15= 30 Marks)

Part B: There shall be **Three questions** uniformly covering Modules 3 and 4, each carrying 15 marks, of which the student has to answer any **Two questions**. At the most 4 subdivisions can be there in one main question with a total of 15 marks for all the subdivisions put together.

(2 x 15 = 30 Marks)

Part C: There shall be **Three questions** uniformly covering Modules 5 and 6, each carrying 20 marks, of which the student has to answer any **Two questions**. At the most 4 subdivisions can be there in one main question with a total of 20 marks for all the subdivisions put together.

(2 x20= 40 Marks)