B.E. (Chemical Engineering) Group							
		Semester-I (UG)	gineering				
S.No	Sub Code	Subject Name	1	TT .	P	Hrs.	Credits
		Engineering Mathematics	3				1
	PHT-411	Applied Physics	1 3				1
	HUT-411	English Communication & Soft Skills	3				1
	EET-411	Elements of Electrical Engineering	3			-	
5	MET-411	Elements of Mechanical Engineering	3			 	
6	PHP-411	Applied Physics	0				
7	HUP-411	English Communication & Soft Skills					;
8	EEP-411					2	;
9	MEP-411	Elements of Electrical Engineering Elements of Mechanical Engineering	0		-	2	-
"AND EDIT OF THE OWNER.		crements of Mechanical Engineering					
- Wild Hall Bridge	· 1. 连点流化温温软溶油带治疗经	Terrest Semester-II (UG)	h harithman		和細胞的開報で		
S.No	Sub Code	Subject Name	Ti .	lτ	Р	Hrs.	Credits
1	CYT-421	Applied Chemistry	3	ļ	0	4	4
2	HUT-422	Engineering Economics and Entrepreneurship	3		0	4	4
3	CST-421	Elements of Computer Programming	2	0	0	2	_ 2
4	ECT-421	Elements of Electronics Engineering	3		0	4	4
5	MET-422	Workshop Technology & Practice-I	2	0	0	2	2
6	CYP-421	Applied Chemistry	0	0	2	2	1
7	CSP-421	Elements of Computer Programming	0	0	2	2	1
8	ECP-421	Elements of Electronics Engineering	0	0	2	2	1
9	MEP-423	Engineering Drawing*	0	0	4	4	2
10	WSP-422	Workshop Technology & Practice-I	0	0	4	4	2
			illu illi		14	. 30	28
	*ME-452	is a practical subject only with LTP: 1-0-3	a a		145	oc .	
					非绿 。	-	
		PRACTICAL TRAINING			VIII.		
	TPS0301	TPS0301** Two Weeks Practical Training during Summer vacation			100	80 2	(S/EIS)
	ļ	Composter III (110)	اا		444	1 0	ran 1
-	-	Semester-III (UG)	I. 1	- 1			
-	o Sub Code	Subject Name Higher Engg Mathematics	L 4				redits
1 2			2	0	0	2	4
3			3	1	0	4	2
4			3	1	0	4	4
4			3	1	0	4	4
6			3	0	0	3	3
7		Fluid Flow lab	0	0	3	3	1
8		Chemical Engineering Thermodynamics lab	0	0	3	3	1
0	CHD-519	Chemical Technology Lab	0	0	3	3	1
		Total	William 18			30	24
			ll				
		Semester-IV (UG)	I 	- 1			
S.N	lo Sub Code		3	T P		rs. Ci	redits
1		-	3	1	0	4	4
2			3	1	0	4	4
3		Al-	3	1	0	4	4
-4		- testeum ontation	3	0	0	3	3
	CITIBE	/ Tr					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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_							
6	CHP-521	Mass Transfer lab-l	0	0	3		-
7		Heat Transfer lab	0	0	3	3	1
8		Mechanical Operations lab	0	0	3	3	1
9	CHD-525	Chamiest Deceses Instrumentation lah	0			2	1
		Total (A.)	11111135	4	MAN WAY	11 1 3 p	22
y copyright a	danifala antititalitatinh	* Con this index the manning that the think is the state of the state	The state of the s				
		Semester-V (UG)					
S.No	Sub Code	Subject Name	L	Т	Р	Hrs.	Credits
1		Numerical Analysis	3	1	0	4	4
2		Chemical Reaction Engineering-II	3	1	0	4	4
3		Mass transfer-II	3	-	0	4	4
4		Petroleum Refining and Petrochemicals	3		0	3	3
5		Elective-I	3		0	3	3
6		Numerical Analysis lab	0	0	2	2	1
7		Chemical Reaction Engineering-lab	0	0	3	3	1
8	. CHP-612	Mass transfer -II lab	0	0	3	3	1
9	CHP-615		0	0	2	2	1
		Totale and the second s		144113	HHHHB	# 100 8	1011122
Hatter herit	adi Maindhatatan	Semester-VI (UG)	and Wildeline ill America	dishred:108bhiltenh.d	nogligity of the Later of the L	ridulustrikini bite 2. a. I	AND AND PROPERTY.
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PHT-621	Physics of Matetials	3	1	0	4	4
2	**O-62*	Open Elective	3	0	0	3	3
3	CHT-621	Process equipment design and drawing	3	1	0	4	4
4	CHT-622	Process dyanamics and control	3	1	0	4	4
5	CHT-623	Transport Phenomenon	3	1	0	4	4
6	CHT-624	Energy Technology	3	0	0	3	3
7	PHP-611		0	0	2	2	1
8	CHP-621		0	0	2	2	1
9	CHP-622		0	0	2	2	1
10	CHP-624	Energy Technology lab	0	0	3	3	1
10 2 4 1 1 1 TOTAL					761126		
		INDUSTRIAL TRAINING					
	TPS-701**	Industrial Training during Summer vacations (6 Weeks)			Į	1200	(S/US)
		Semester-VII (UG)					
S.No	Sub Code	Subject Name	L	T	P	Hrs. C	redits
1	HUT-711	Principles of Management	3	1	0	4	4
2	**0-71*	Open Elective	3	0	0	3	3
3	CHM-711	Environmental Studies	3	0	0	3	3
4	CHT-712	Plant Design and Economics	3	1	0	4	4
5	CHT-713	Modeling and Simulation	3	0	0	3	3
6	CHT-714	Elective -II	3	0	0	3	3
7	CHP-711	Environmental Testing and Analysis lab	0	0	2	2	1
8	CHP-713	Modeling and Simulation lab	0	0	2	2	1
9	CHP-715	CAD for Chemical Engineers	0	0	3	3	1
10	CHP-720	Minor Project	О	0	4	4	2
TOTAL TOTAL TOTAL PROPERTY OF THE PROPERTY OF							
!		Semester-VIII (UG)	,				
S.No	Sub Code	Judice Hame				irs. C	credits
1	HUM-721	Human Values and Professional Ethics	3	0	0	2	2
2	**O-72*	Open Elective	3	0	0	3	3

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Revised Teaching Scheme according to decision taken in the HOD's meeting with Dean (A) on 17.10.2016

3	CHT-721	Industrial Pollution Control	2	0		3	3
4				- 0		3	
		and the state of t		0	0	3	3
5	CHT-723	F-723 Elective III		0	0	3	3
6	CHP-722	CHP-722 Chemical Plant Utilities and Safety lab		0	3	3	1
7	CHP-723 Software applications in Chemical Engineering		0	0	3	3	1
8	CHP-730 Project		0	0	8	8	4
		A STATE OF THE STA	建	De La Company	M. 14	128	f 7 9 20
¥		Grand Total	126	23	86	235	196
			Theory	Tutorial	Practical	Hours	Credits
		Total Basic Sciences	19	5	8	32	28
		Total Humanities	9	2	2	13	12
		Total Other Engineering	. 13	3	16	32	24
		Total Open Electives	9	0	0	9	9
		Total Core Subject	71	13	48	132	102
		Total Mandatory courses	5	0	0	5	5
		Projects	. 0	0	12	12	6
	Summer training and Industrial Training						10
		Total	126	23	86	235	196

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LIST OF DEPARTMENT ELECTIVES

The state of the s
CHT-614A Agro Residue Utilization
CHT-614B Paint Technology
CHT-614C Pulping and Bleaching Technology
CHT-614D Polymer Science and Engineering
CHT-714A Novel Separation Techniques
CHT-714B Electrochemical Technology
CHT-714C Stock Preparation & Paper Making
CHT-714D Advanced Polymer Material
CHT-723A Energy Audit and Management
CHT-724B Application of Nano-technology in Chemical Engineering
CHT-725C Chemical Recovery Processes in Pulp& Paper Industry
CHT-726D Rubber Technology

LIST OF OPEN ELECTIVES

	Non-Conventional Energy Sources
CHO-622	Combustion Technology
	Environmental Impact Assessment
CHO-721	Hazardous Waste Management
	Solid Waste Management

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BEPEO)

- To prepare students for successful professional career in Indian and multinational Chemical process and allied industries, design and consultancy organizations and relevant govt. agencies.
- 2. Capacity build-up in students for problem analysis, interpretation and solution related to application of Chemical engineering for sustainable development.
- 3. To prepare students who can provide leadership and companionship in multidisciplinary teams.
- 4. To inculcate in students qualities that enable them to apply their domain knowledge as enlightened citizens for the upliftment of society.

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BE PEO)

- 1. To prepare students for successful professional career in Indian and multinational Chemical process and allied industries, design and consultancy organizations and relevant govt. agencies.
- 2. Capacity build-up in students for problem analysis, interpretation and solution related to application of Chemical engineering for sustainable development.
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- 4. To inculcate in students qualities that enable them to apply their domain knowledge as enlightened citizens for the upliftment of society.

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Program Outcomes (POs):

- 1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation to the solution of complex engineering problems.
- 2. Problem analysis: Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- 4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- 6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and Leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program specific outcomes (PSOs):

13. Natural resource utilization: The candidate should have sufficient technical knowledge to cater to the need of existing and upcoming chemical industry and efficient utilization of natural resources.

14. Cleaner production: Applying Chemical Engineering fundamentals for green and

energy efficient processes.

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