



List of Programme (s)

Department : **Chemical Engineering**

Programme Name : **B.Tech.**

Academic Year : **2023-24**

**List of Programmes having Components of Field Project/Projects/Internships**

Sr. No.	Course Code	Course Name	Academic Year
01.	CHUDPV1	Mini Project	2023-24
02.	CH407PPC09	Vocational Training Viva cum Seminar	2023-24
03.	CH407PPC10	Minor Project	2023-24
04.	CH408PPC11	Major Project	2023-24
05.	CHPBPT1	Mini Project	2023-24
06.	CHPCPT1	Dissertation Stage-I	2023-24
	CHPDPT1	Dissertation Stage-II	2023-24



## Scheme highlighting the Components of Projects/Internships

SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.) (A Central University Established by the Central University Ordinance 2009, No. 3 of 2009)									
SCHEME FOR EXAMINATION (Effective from Session 2023-24)									
B. TECH. (FOUR YEAR) DEGREE COURSE, CHEMICAL ENGINEERING									
SECOND YEAR, FOURTH SEMESTER (NEP)									
S. No.	Subject Code	Subject Name	Periods			Evaluation Scheme			Credits
	THEORY		L	T	P	Sessional			
						CIA	SEA	TOTAL	
01.	CHUDTT1	Particle and Fluid Particle Operations	3	0	0	40	60	100	3
02.	CHUDTT2	Inorganic Chemical Technology	3	0	0	40	60	100	3
03.	CHUDTT3	Numerical Methods in Chemical Engineering	3	0	0	40	60	100	3
04.	CHUDTK1	Process Instrumentation	3	0	0	40	60	100	3
	CHUDTK2	Fluidization Engineering							
05.	CHUDTO1	Energy and Environment	3	0	0	40	60	100	3
	CEUDTO1	Remote Sensing & GIS							
	MEUDTO1	Introduction to Fluid Mechanics							
	IPUDTO1	Automobile Engineering							
	CSUDTO1	Introduction to Information Science							
	ITUDTO1	Computer Network							
	ITUDTO2	Fundamentals of Python Programming							
	ECUDTO1	Introduction to Electronic Devices & Circuits							
	ESUDTO1	Effective Technical Communication							
PRACTICAL									
01.	CHUDLT1	Particle and Fluid Particle Operations Lab	0	0	2	25	25	50	1
02.	CHUDLT2	Numerical Methods in Chemical Engineering Lab	0	0	2	25	25	50	1
03.	CHUDPV1	Mini Project	0	0	4	50	50	100	2
Total			15	0	8	300	400	700	19
CIA – Continuous Internal Assessment SEA – Semester End Assessment			Total Credits – 19 Total Marks – 700			Total Periods / Week - 23			
CIA-Shall be two class test (CT) I & II each 15 marks, 05 marks for assignment, surprise test, quiz etc. and 05 marks attendance CH-Chemical Engineering, CE-Civil Engineering, ME-Mechanical Engineering, IT-Information Technology IP-Industrial and Mechanical Engineering, CSE-Computer Science & engineering, EC-Electronics and Communication Engineering									
BoS Held on 06-10-2023									



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**SCHEME FOR EXAMINATION (Effective from Session 2023-24)**  
**B.TECH. (FOUR YEAR) DEGREE COURSE, CHEMICAL ENGINEERING**  
**FOURTH YEAR, SEVENTH SEMESTER (AICTE-NEW)**

S. No.	Subject Code	Subject Name	Periods			Evaluation Scheme			Credits
	Sessional								
	THEORY		L	T	P	IA	ESE	TOTAL	
01.	CH407TPC14	Process Equipment Design-II	3	0	0	30	70	100	3
02.	CH407TPC15	Transport Phenomena	3	0	0	30	70	100	3
03.	CH407TPE4X	Professional Elective-IV	3	0	0	30	70	100	3
04.	CH407TPE5X	Professional Elective-V	3	0	0	30	70	100	3
05.	XX207TOEXX	Open Elective-II	3	0	0	30	70	100	3
PRACTICAL									
01.	CH407PPC09	Vocational Training Viva cum Seminar	0	0	4	30	20	50	2
02.	CH407PPC10	Minor Project	0	0	6	30	20	50	3
Total			15		10	210	390	600	20

IA - Internal Assessment  
Total Marks - 600

ESE - End Semester Examination  
Total Periods / Week - 25

Total Credits - 20

*[Signatures and Date: 28/06/2023]*

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**SCHEME FOR EXAMINATION (Effective from Session 2023-24)**  
**B.TECH. (FOUR YEAR) DEGREE COURSE, CHEMICAL ENGINEERING**  
**FOURTH YEAR, EIGHTH SEMESTER (AICTE-NEW)**

S. No.	Subject Code	Subject Name	Periods			Evaluation Scheme			Credits
	Sessional								
	THEORY		L	T	P	IA	ESE	TOTAL	
01.	CH408TPC16	Process Equipment Design-III	3	1	0	30	70	100	4
02.	CH408TPE6X	Professional Elective-VI	3	0	0	30	70	100	3
03.	XX208TOEXX	Open Elective-III	3	0	0	30	70	100	3
PRACTICAL									
01.	CH408PPC11	Major Project	0	0	12	120	80	200	6
Total			9	1	12	210	290	500	16

IA - Internal Assessment  
Total Marks - 500

ESE - End Semester Examination  
Total Periods / Week - 22

Total Credits - 16

*[Signatures and Date: 28/06/2023]*





M.Tech. II-Semester

Sl.	Course Type/ Code	Subjects	Periods/Week			Evaluation			Credits
			L	T	P	IA	ESE	Total	
1.	CHPBTT1	Advanced Transport Phenomena	3	0	0	40	60	100	3
2.	CHPBTT2	Chemical Reactor Design	3	0	0	40	60	100	3
3.	CHPBTP1 CHPBTP2 CHPBTP3	Elective – III Computational Fluid Dynamics Fuel Cell Technology Process Plant Design & Flow Sheetting	3	0	0	40	60	100	3
4.	CHPBTP4 CHPBTP5 CHPBTP6	Elective – IV Design & Development of Catalyst Industrial Pollution Control Safety Hazards & Risk Analysis	3	0	0	40	60	100	3
5.	MSPBT01 IPPBT02 IPPBT03 CEPBT04 MEPBT05 CHPBTO6 ECPBT07 MCPBT08	Open Elective 1. Business Analytics 2. Industrial Safety 3. Operations Research 4. Cost Management of Engineering Projects 5. Composite Materials 6. Waste to Energy 7. Internet of Things 8. MOOCs	3	0	0	40	60	100	3
6.	CHPBLT1	Advanced Chemical Engineering Lab	0	0	4	30	20	50	2
7.	CHPBPT1	Mini Project	0	0	4	30	20	50	2
8.	ELPBTX1 PEPBTX2 CEPBTX3 LAPBTX4	Audit Course/Value Added Course English for Research Paper Writing Stress Management by Yoga Disaster Management Constitution of India	2	0	0	0	0	0	0
Total								600	19

Note: Under MOOCs the students have to opt any subject other than Chemical Engineering from NPTEL/JGC SWAYAM



M.Tech. III-Semester

Sl.	Course Type/ Code	Subjects	Periods/Week			Evaluation			Credits
			L	T	P	IA	ESE	Total	
1.	CHPCPT1	Dissertation Stage-I	0	0	28	100	100	200	14
Total									200 14

M.Tech. IV-Semester

Sl.	Course Type/ Code	Subjects	Periods/Week			Evaluation			Credits
			L	T	P	IA	ESE	Total	
1.	CHPDPT1	Dissertation Stage-II	0	0	32	100	200	300	16
Total									300 16

Total Credits for the Program = 19 + 19 + 14 + 16 = 68

Note: Highlight the Courses having field projects / research projects / internships.