

**GURU GHASIDAS VISHWAVIDYALAYA  
BILASPUR (C.G.)**

(A Central University)  
Koni, Bilaspur-495009, C.G (India)



**OUTCOME BASED EDUCATION  
WITH  
CHOICE BASED CREDIT SYSTEM (CBCS)**

**MASTER OF TECHNOLOGY  
IN  
CHEMICAL ENGINEERING**

***COURSE STRUCTURE AND SYLLABI***

**M.Tech Regular Two Year Degree Program  
(Effective from the academic year 2021-22)**

**DEPARTMENT OF CHEMICAL ENGINEERING  
SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY,  
GGV, BILASPUR, C.G. (INDIA)**

14/09/22

DEPARTMENT OF CHEMICAL ENGINEERING  
SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY, GGV, BILASPUR, C.G.  
(INDIA)

SCHEME OF EXAMINATION

M.TECH. CHEMICAL ENGINEERING

M.Tech. I-Semester

Sl.	Course Type/ Code	Subjects	Periods/Week			Evaluation			Credits
			L	T	P	IA	ESE	Total	
1.	CHPATT1	Advanced Heat Transfer	3	0	0	40	60	100	3
2.	CHPATT2	Advanced Separation Processes	3	0	0	40	60	100	3
3.	CHPATT3	Advanced Fluidization Engineering	3	0	0	40	60	100	3
4.	CHPATP1	Elective – I Advanced Reaction Engineering	3	0	0	40	60	100	3
	CHPATP2	Advanced Wastewater Treatment Technology							
	CHPATP3	Advanced Chemical Process Modeling							
5.	CHPATP4	Elective – II Advanced Process Control	3	0	0	40	60	100	3
	CHPATP5	Process Intensification							
	CHPATP6	Bioprocess Engineering							
6.	CHPALT1	Chemical Engineering Computational Lab	0	0	4	30	20	50	2
7.	CHPATC1	Research Methodology and IPR	2	0	0	-	50	50	2
Total								600	19

*Grand Total*  
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*Amrit Kaur*

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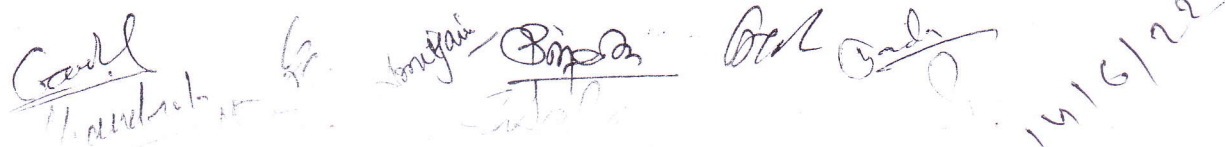
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### M.Tech. II-Semester

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 Sheeting	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	MSPBTO1 IPPBTO2 IPPBTO3 CEPBTO4 MEPBTO5 CHPBTO6 ECPBTO7 ---	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	40	60	100	2
Total								700	21

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


  
 14/6/22



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 + 21 + 14 + 16 = 70

Gauri  
De

H. Ameyan  
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Gauri

Mandru  
14/06/2022

Sulake

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