

INSTITUTE OF TECHNOLOGY
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)
(A Central University Established by the Central University Ordinance 2009, No. 3 of 2009)

SCHEME FOR EXAMINATION
B.Tech. (FOUR YEAR) DEGREE COURSE, CHEMICAL ENGINEERING

SECOND YEAR, THIRD SEMESTER

S. No.	Course No.	Subject	Periods			Evaluation Scheme					Credits
			L	T	P	Sessional Exam			ESE	Sub Total	
						IA	MSE	Total			
01.	CH2301	Chemical Engineering Thermodynamics – I	3	1	-	20	20	40	60	100	4
02.	CH2302	Chemical Engineering Calculation	3	1	-	20	20	40	60	100	4
03.	CH2303	Process Instrumentation and Analysis	3	1	-	20	20	40	60	100	4
04.	CH2304	Mathematics III	3	1	-	20	20	40	60	100	4
05.	CH2305	Basic Electronics Engineering	3	1	-	20	20	40	60	100	4
PRACTICAL											
06.	CH2306	Process Instrumentation and Analysis	-	-	3	30	-	30	20	50	2
07.	CH2307	Chemical Engineering Laboratory I	-	-	3	30	-	30	20	50	2
08.	CH2308	Basic Electronics Engineering	-	-	3	30	-	30	20	50	2
TOTAL			15	05	09					650	26

IA – Internal Assessment

MSE – Mid Semester Examination

ESE - End Semester Examination

Total Marks – 650

Total Periods – 29

Total Credits - 26

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SCHEME FOR EXAMINATION
B.Tech. (FOUR YEAR) DEGREE COURSE, CHEMICAL ENGINEERING

SECOND YEAR, FOURTH SEMESTER

S. No.	Course No.	Subject	Periods			Evaluation Scheme					Credits
			L	T	P	Sessional Exam			ESE	Sub Total	
						IA	MSE	Total			
01.	CH2401	Fluid Mechanics	3	1	-	20	20	40	60	100	4
02.	CH2402	Mechanical Operation	3	1	-	20	20	40	60	100	4
03.	CH2403	Organic Chemical Technology	3	1	-	20	20	40	60	100	4
04.	CH2404	Chemical Engineering Thermodynamics -II	3	1	-	20	20	40	60	100	4
05.	CH2405	Strength of Materials	3	1	-	20	20	40	60	100	4
PRACTICAL											
06.	CH2406	Fluid Mechanics	-	-	3	30	-	30	20	50	2
07.	CH2407	Mechanical Operation	-	-	3	30	-	30	20	50	2
08.	CH2408	Strength of Materials	-	-	3	30	-	30	20	50	2
TOTAL			15	05	09					650	26

IA – Internal Assessment

MSE – Mid Semester Examination

ESE - End Semester Examination

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Total Periods – 29

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SCHEME FOR EXAMINATION
B.Tech. (FOUR YEAR) DEGREE COURSE, CHEMICAL ENGINEERING
THIRD YEAR, FIFTH SEMESTER

S. No.	Course No.	Subject	Periods			Evaluation Scheme					Credits
			L	T	P	Sessional Exam			ESE	Sub Total	
						TA	CT	Total			
01.	CH3501	Heat Transfer	3	1	-	20	20	40	60	100	4
02.	CH3502	Mass Transfer – I	3	1	-	20	20	40	60	100	4
03.	CH3503	Process Equipment Design (Mechanical) – I	3	1	-	20	20	40	60	100	4
04.	CH3504	Inorganic Chemical Technology	3	1	-	20	20	40	60	100	4
05.	CH3505	Numerical Analysis and Computer Application	3	1	-	20	20	40	60	100	4
PRACTICAL											
06.	CH3506	Heat Transfer	-	-	3	30	-	30	20	50	2
07.	CH3507	Mass Transfer – I	-	-	3	30	-	30	20	50	2
08.	CH3508	Numerical Analysis and Computer Application	-	-	3	30	-	30	20	50	2
TOTAL			15	05	09					650	26

IA – Internal Assessment

MSE – Mid Semester Examination

ESE - End Semester Examination

Total Marks – 650

Total Periods – 29

Total Credits - 26

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SCHEME FOR EXAMINATION
B.Tech. (FOUR YEAR) DEGREE COURSE, CHEMICAL ENGINEERING
THIRD YEAR, SIXTH SEMESTER

S. No.	Course No.	Subject	Periods			Evaluation Scheme					Credits
			L	T	P	Sessional Exam			ESE	Sub Total	
						TA	CT	Total			
01.	CH3601	Mass Transfer – II	3	1	-	20	20	40	60	100	4
02.	CH3602	Process Equipment Design – II	3	1	-	20	20	40	60	100	4
03.	CH3603	Process Dynamics and Control	3	1	-	20	20	40	60	100	4
04.	CH3604	Chemical Reaction Engineering	3	1	-	20	20	40	60	100	4
05.	CH3605	Engineering Materials	3	1	-	20	20	40	60	100	4
PRACTICAL											
06.	CH3606	Mass Transfer – II	-	-	3	30	-	30	20	50	2
07.	CH3607	Process Dynamics and Control	-	-	3	30	-	30	20	50	2
08.	CH3608	Chemical Reaction Engineering	-	-	3	30	-	30	20	50	2
TOTAL			15	05	09					650	26

IA – Internal Assessment

MSE – Mid Semester Examination

ESE - End Semester Examination

Total Marks – 650

Total Periods – 29

Total Credits - 26

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SCHEME FOR EXAMINATION
B.Tech. (FOUR YEAR) DEGREE COURSE, CHEMICAL ENGINEERING
FOURTH YEAR, SEVENTH SEMESTER

S. No.	Course No.	Subject	Periods			Evaluation Scheme					Credits
			L	T	P	Sessional Exam			ESE	Sub Total	
						TA	CT	Total			
01.	CH4701	Project Engineering, Economics & Management	3	1	-	20	20	40	60	100	4
02.	CH4702	Fuel Combustion Energy Technology	3	1	-	20	20	40	60	100	4
03.	CH4703	Process Equipment Design – III	3	1	-	20	20	40	60	100	4
04.	CH4704	Transport Phenomena	3	1	-	20	20	40	60	100	4
05.	CH4705-06	Elective – I*	3	1	-	20	20	40	60	100	4
PRACTICAL											
06.	CH4707	Fuel Combustion Energy Technology	-	-	3	30	-	30	20	50	2
07.	CH4708	Minor Project	-	-	3	30	-	30	20	50	2
08.	CH4709	Industrial Training Viva Cum Seminar	-	-	3	30	-	30	20	50	2
TOTAL			15	05	09					650	26

IA – Internal Assessment
Total Marks – 650

MSE – Mid Semester Examination
Total Periods – 29

ESE - End Semester Examination
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* CH4705 Petroleum Refinery Engineering
CH4706 Polymer Technology- I

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SCHEME FOR EXAMINATION
B.Tech. (FOUR YEAR) DEGREE COURSE, CHEMICAL ENGINEERING

FOURTH YEAR, EIGHTH SEMESTER

S. No.	Course No.	Subject	Periods			Evaluation Scheme					Credits
			L	T	P	Sessional Exam			ESE	Sub Total	
	TA					CT	Total				
01.	CH4801	Process Utilities and Safety	3	1	-	20	20	40	60	100	4
02.	CH4802	Optimization Techniques in Chemical Engg.	3	1	-	20	20	40	60	100	4
03.	CH4803	Environmental Pollution Control Engineering	3	1	-	20	20	40	60	100	4
04.	CH4804	Process Modeling & Simulation	3	1	-	20	20	40	60	100	4
05.	CH4805-06	Elective – II*	3	1	-	20	20	40	60	100	4
PRACTICAL											
06.	CH4807	Environmental Engineering	-	-	3	30	-	30	20	50	2
07.	CH4808	Project	-	-	6	60	-	60	40	100	4
TOTAL			15	05	09					650	26

IA – Internal Assessment

Total Marks – 650

* CH4805 Petrochemical Technology

CH4806 Polymer Technology- II

MSE – Mid Semester Examination

Total Periods – 29

ESE - End Semester Examination

Total Credits – 26