

SCHEME OF INSTRUCTION AND EXAMINATION (CBCS)

**B. TECH. (CHEMICAL ENGG.) THIRD SEMESTER
 (Effective from Academic Year 2017-2018)**

S.No	Course No.	Course Title	SCHEME OF INSTRUCTION HOURS PER WEEK		SCHEME OF EXAMINATION			Credits
			L	P	Duration, Hours	CIE	SEE	
1	BS 301 MAT	Mathematics -III	4	-	3	25	75	4
2	PC 302 ICT	Inorganic Chemical Technology	4	-	3	25	75	4
3	PC 303 MEB	Material & Energy Balances	4	-	3	25	75	4
4	ES 304 EEE	Electrical & Electronics Eng	4	-	3	25	75	4
5	BS 305 PCH	Physical Chemistry	4	-	3	25	75	4
Practicals								
6	BS 351 PCH	Physical Chemistry Lab	-	3	4	25	50	2
7	ES 352 EEE	Elect. & Electronics Engg. Lab	-	3	4	25	50	2
8	PC 353 ICT	Inorganic Chemical Technology lab	-	3	4	25	50	2
			20	9		200	525	26

SCHEME OF INSTRUCTION AND EXAMINATION (CBCS)

**FOR B.TECH (CHEM.ENGG) FOURTH SEMESTER
 (Effective from Academic Year 2017-2018)**

S.No	Course No.	Course Title	SCHEME OF INSTRUCTION HOURS PER WEEK		SCHEME OF EXAMINATION			Credits
			L	P	Duration, Hours	CIE	SEE	
1	BS 401 MAT	Mathematics - IV	4	-	3	25	75	4
2	PC 402 OCT	Org. Chem. Tech.	4	-	3	25	75	4
3	PC 403 FM	Fluid Mechanics	4	-	3	25	75	4
4	MC 404 ENS	Environ. Studies	4	-	3	25	75	4
5	PC 405 CETD	Chem. Eng. Thermodynamics I	4	-	3	25	75	4
Practicals								
6	PC 451 OCT	Org. Chem. Tech. Lab	-	3	4	25	50	2
7	PC 452 FM	Fluid Mechanics Lab	-	3	4	25	50	2
Total			20	6		175	475	24

**SCHEME OF INSTRUCTION AND EXAMINATION (CBCS)
 FOR B.TECH. (CHEMICAL ENGG.) FIFTH SEMESTER
 (Effective from Academic Year 2018-2019)**

S.No	Course No.	Course Title	SCHEME OF INSTRUCTION HOURS PER WEEK		SCHEME OF EXAMINATION			Credits
			L	P	Duration, Hours	CIE	SEE	
1	PC 501 HT	Heat Transfer	4	-	3	25	75	4
2	PC 502 MUO	Mech. Unit Oper.	4	-	3	25	75	4
3	PC 503 CETD	Chemical Engg. Thermodynamics-II	4	-	3	25	75	4
4	PC 504 CRE	Chem. Reac. Eng.-I	4	-	3	25	75	4
5	PE 505 E-I	Elective-I	4	-	3	25	75	4
Practicals								
6	PC 551 HTR	Heat Transfer Lab	-	3	4	25	50	2
7	PC 552 MUO	Mech. Unit Opera. Lab	-	3	4	25	50	2
8	PE 553 E-I	Elective-I Lab	-	3	4	25	50	2
			20	9		200	525	26

Elective - I : 1).Technology of Pharmaceuticals & Fine Chemicals, 2).Technology of Oils & Fats, 3). Polymer Engineering & Technology, 4).Organic Surface Coatings Tech. , 5). Technology of Refractories & Furnaces and 6). Technology of Ceramics

**SCHEME OF INSTRUCTION AND EXAMINATION (CBCS)
 FOR B.TECH (CHEM. ENGG) SIXTH SEMESTER
 (Effective from Academic Year 2018-2019)**

S.No	Course No.	Course Title	SCHEME OF INSTRUCTION HOURS PER WEEK		SCHEME OF EXAMINATION			Credits
			L	P	Duration, Hours	CIE	SEE	
1	PC 601 MTO	Mass Trans. Oper. - I	4	-	3	25	75	4
2	PC 602 CRE	Chem. Reac. Engg. -II	4	-	3	25	75	4
3	PC 603 MSI	Material Science & Instruments	4	-	3	25	75	4
4	PC 604 PDC	Process Dynamics & Control	4	-	3	25	75	4
5	PE 605 E-II	Elective- II	4	-	3	25	75	4
Practicals								
6	PC 651 CRE	Chem. Reac. Engg Lab	-	3	4	25	50	2
7	PC 652 PDC	Process Dyn. & Control Lab	-	3	4	25	50	2
8	SEC 754 II	Industrial Internship				50		2
Total			20	6		225	475	26

Elective – II 1). Fluidization Engineering, 2). Non–Newtonian Flow and Slurry Transport
 3). Safety & Hazard Analysis, 4).Estimation of Thermodynamic, Thermo Physical and Transport
 Properties, 5). Energy Engineering, 6).Surfactant Technology 7).Petrochemical Eng.11.Nuclear Eng.

SCHEME OF INSTRUCTION AND EXAMINATION (CBCS)

**FOR B.TECH (CHEM. ENGG) SEVENTH SEMESTER
 (Effective from Academic Year 2019-2020)**

S.No	Course No.	Course Title	SCHEME OF INSTRUCTION HOURS PER WEEK		SCHEME OF EXAMINATION			Credits
			L	P	Duration, Hours	CIE	SEE	
1	PC 701 MTO	Mass Transfer Operations - II	4	-	3	25	75	4
2	PE 702 EIII	Elective – III	4	-	3	25	75	4
3	PC 703 PMS	Process Modeling & Simulation	4	-	3	25	75	4
4	PC 704 TPP	Transport Phenomena	4	-	3	25	75	4
5	PE 705 E-V	Elective-IV (Open)	4	-	3	25	75	4
Practicals								
6	PC 751 MTO	Mass Transfer Operations Lab	-	3	4	25	50	2
7	PC 752 PMS	Process Modeling & Simulation Lab	-	3	4	25	50	2
8	SEC 753 PRO	Project Seminar	-			25		4
Total			20	6		200	475	28

ELECTIVE – III :1.Fibre Pulp and paper Industry,2.Sugar Technology, 3.Mineral Processing Technology, 4.Fertilizer Technology, 5.Corrosion & Corrosion Control
 6.Electrochemical Engineering, 7.Simulation and computer aided Design 8.Membrane Separation processes 9.Electro chem. Eng.

Elective-IV (Open)

1.Pollution Control in Process Industries (Chem.Eng.) 2.Product Packaging Technologies (FT)
 3.Operations Research for Engineers, (TT)

SCHEME OF INSTRUCTION AND EXAMINATION

(CBCS)

B.TECH (CHEM. ENGG) EIGHTH SEMESTER (Effective from Academic Year 2019-2020)

S.No	Course No.	Course Title	SCHEME OF INSTRUCTION HOURS PER WEEK		SCHEME OF EXAMINATION			Credits
			L	P	Duration, Hours	CIE	SEE	
1	PE 801 EL-V	Elective-V (Open Elective)	4	-	3	25	75	4
2	PC 802 PDE	Plant Design & Econ.	4	-	3	25	75	4
3	PE 803 EL-VI	Elective-VI	4	-	3	25	75	4
4	PC 804 PED	Process Equipment Design	4	-	3	25	75	4
Practicals								
5	PC 851 PDD	Process Equipment Design and Drawing Lab		3	4	25	50	2
6	SEC 852 PRW	Project Work	-	-	-	50	100	6
Total			16	3		175	450	24

Elective-V (Open)

- 1 Biochemical Engineering (Chem. Eng.)
2. Non-Thermal Processing of Foods.(FT)
3. Statistical Analysis and Design of Experiments (TT)

Elective-VI

1. Principles of Management and Industry Psychology
2. Ind. Entrepreneurship & Management,