

GUJARAT TECHNOLOGICAL UNIVERSITY

Teaching Scheme : B.E. Course : Semester VIII (W.E.F.: 2017-2018)

Chemical Engineering (05)

Semester VIII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
2180502	Petroleum Refining & Petrochemicals	4	0	2	6	70	30	30	20	150	5
2180504	Project -II	0	0	8	8	0	0	80	20	100	5
2180503	Process Modeling, Simulation & Optimization	4	0	3	7	70	30	30	20	150	5
2180507	Transport Phenomena	3	0	0	3	70	30	0	0	100	5
	Department Elective - III	3	2	0	5	70	30	30	20	150	5
	Total	14	2	13	29						

Departmental Elective III

2180505	Multi Component Distillation
2180508	Solid-fluid operations
2180509	Fertilizer Technology

Civil Engineering (06)

Semester VIII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
2180605	Project -II	0	0	8	8	0	0	80	20	100	6
2180609	Foundation Engineering	3	0	2	5	70	30	30	20	150	6
2180610	Design of Steel Structures	3	2	0	5	70	30	30	20	150	6
2180611	Construction Management	3	2	0	5	70	30	30	20	150	6
	Departmental Elective - III*	3	1	0	4	70	30	30	20	150	6
	Total	12	5	10	27						
	Departmental Elective III:	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Total Marks	
2180601	Design of Hydraulic Structures	3	1	0	4	70	30	30	20	150	6
2180607	Repairs & Rehabilitation of Concrete Structures	3	1	0	4	70	30	30	20	150	6
2180612	Design of Prestressed Concrete Structures & Bridge	3	1	0	4	70	30	30	20	150	6
2180602	Harbour & Airport Engineering	3	1	0	4	70	30	30	20	150	6
2180613	Glass Facade Engineering	3	0	1	4	70	30	30	20	150	6

* Credits will vary as per the syllabus of the concern subject in tutorial and Practical as per above table

Electrical Engineering (09)

Semester VIII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
2180903	Power System Planning and Design	3	0	2	5	70	30	30	20	150	9
2180905	Project	0	0	10	10	0	0	80	20	100	9
2180901	Testing and Commissioning of Electrical Equipments	3	0	2	5	70	30	30	20	150	9
	Departmental Elective - III	3	0	2	5	70	30	30	20	150	9
2180909	Power System Operation and Control	4	0	0	4	70	30	0	0	100	9
	Total	13	0	16	29						
Departmental Elective III:											
2180910	Energy Conservation, and Audit										
2180911	Power Quality and Management										
2180912	Condition Monitoring										
2180913	Advanced Control Systems										

Electronics Engineering (10)

Semester VIII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Departmental Elective - III	4	0	2	6	70	30	30	20	150	10
2181008	Project	0	0	18	18	0	0	80	20	100	10
	Total	4	0	20	24						

Departmental Elective II

2181102	Fandamental of Image Processing
2181007	Satellite Commmunication
2181006	Advance Microprocessor

Mechanical Engineering (19)

Semester VIII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
2181909	Project II	0	0	16	16	0	0	80	20	100	19
2181910	Renewable Energy Engineering	4	0	0	4	70	30	0	0	100	19
	Department Elective II*	3	0	2	5	70	30	30	20	150	19
	Total	7	0	18	25						
	Departmental Elective II:	Theory	Tutorial	Practical	Credits	ESE(E)	PA (M)	Viva (V)	PA(I)	Total Marks	
2181911	Finite Elements Method	3	0	2	5	70	30	30	20	150	19
2181912	Optimization	3	2	0	5	70	30	30	20	150	19
2181913	Product Design and Value Engineering	3	2	0	5	70	30	30	20	150	19
2181914	Rapid Prototyping	3	0	2	5	70	30	30	20	150	19
2181915	Automobile Engineering	3	0	2	5	70	30	30	20	150	19
2181916	Energy Conservation and Management	3	2	0	5	70	30	30	20	150	19
2181917	Cryogenic Engineering	3	0	2	5	70	30	30	20	150	19
2181918	Principles of Combustion Engineering	3	0	2	5	70	30	30	20	150	19
2181919	Robotics	3	0	2	5	70	30	30	20	150	19
2181920	Quality Engineering	3	2	0	5	70	30	30	20	150	19
2181921	Design for Manufacturing and Assembly	3	2	0	5	70	30	30	20	150	19
2181922	Automation	3	0	2	5	70	30	30	20	150	19
2181923	Enterpreneurship	3	2	0	5	70	30	30	20	150	19
2181924	Design of Heat Exchanger	3	0	2	5	70	30	30	20	150	19
2181925	Computational Fluid Dynamics	3	0	2	5	70	30	30	20	150	19
2181926	Tribology	3	0	2	5	70	30	30	20	150	19
2181927	Advance Welding Technology	3	0	2	5	70	30	30	20	150	19

* Credits will vary as per the syllabus of the concern subject in tutorial and Practical as per above table

Environmental Science and Technology (35)

Semester VIII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Department Elective - III	3	0	2	5	70	30	30	20	150	35
2183507	Design of Treatment Plants	4	1	2	7	70	30	30	20	150	35
2183511	Municipal Waste & Sewage Management	3	0	0	3	70	30	0	0	150	35
2183512	Environmental Management - III	3	0	0	3	70	30	0	0	100	35
2183506	Project – II	0	0	8	8	0	0	80	20	100	35
	TOTAL	13	1	12	26						
Department Elective- III											
Code	Name of the subject										
2183504	Sustainable Development & Green Chemistry										
2183510	Water Supply & Management										

Chemical Technology (36)

Semester VIII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Tutorial/ Practical		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
2183605	Project – II	0	0	10	10	0	0	80	20	100	36
	Department Elective – IX	4	0	3	7	70	30	30	20	150	36
2183607	Process Instrumentation, Dynamics & Control	3	0	3	6	70	30	30	20	150	36
2183608	Chemical Process Technology	3	0	0	3	70	30	0	0	100	36
	Department Elective – X	4	0	0	4	70	30	0	0	100	36
	Total	14	0	16	30						
Department Elective- IX											
Code	Name of the subject										
2183601	Drug Delivery, Biotechnology & Validation Requirement										
2183602	Design & Fabrication of Molds										
2183606	Physical Ceramics										
2183609	Analysis, Applications, Health and Safety Aspects of Dyes & Pigments										
Department Elective-X											
Code	Name of the subject										
2183610	Nanoscience Technology and Pharmaceutical Packaging Technology										
2183611	Recycling and Packaging of Polymer and Rubber										
2183612	Advanced Ceramics										
2183613	Engineering of Pigmented Dispersion.										

Selection of Department Elective Subjects							
Batch: 2015							
Semester: VII							
S.No	Enrolment No.	Name of students	Name of Elective subject-1		Name of Elective subject-2		Student's Signatures
			DAQM	DSPCS	NWTS	WRM	
1	150990135002	ANTALA KWINAL PANKAJKUMAR	✓		✓		Karnal
2	150990135004	BARAD VISHWAJEET	✓		✓		Vishwajeet
3	150990135005	BORKHTRIYA VIJAY JAGMALBHAI	✓		✓		Vijay
4	150990135006	CHANDEGRA KHYATI DHIRAJ	✓		✓		Khyati
5	150990135007	CHAVDA DEEP ASHWINBHAI	✓		✓		Deep
6	150990135008	DHRUVIBEN PANKAJBHAI SHAH	✓		✓		Dhrub
7	150990135009	DIPENKUMAR	✓		✓		Dipen
8	150990135011	GAJERA DIVYANG CHANDULAL	✓		✓		Divyanga
9	150990135012	GANDHI TIRTHESH RASHMIKANT	✓		✓		Tirthesh
10	150990135013	GHODASARA DRASHTIBEN ANILBHAI	✓		✓		Drashti
11	150990135014	HEMALI DHARMENDRASINH RAJ	✓		✓		Hemali
12	150990135015	KAMALIYA NARESHBHAI BABABHAI	✓		✓		Naresh
13	150990135016	KESHABAHEN UPENDRASINH DODIYA	✓		✓		Keshab
14	150990135017	LAKHANI KENABEN SANJAYBHAI	✓		✓		Kenab
15	150990135018	LIMBACHIYA UPASANA KIRITKUMAR	✓		✓		Upasana
16	150990135019	MANSI	✓		✓		Mansi
17	150990135022	PAL ROSHANI SUBEDAR	✓		✓		Roshni
18	150990135023	PALAK SAXENA	✓		✓		Palak
19	150990135024	PAREKH AASTHA RAJENDRAKUMAR	✓		✓		Aastha
20	150990135025	PAREKH KISHANKUMAR MEHULBHAI	✓		✓		Kishan
21	150990135026	PATEL HARIKRISHNA GUNVANTBHAI	✓		✓		Hari
22	150990135028	PATEL MARMIK PARESHKUMAR	✓		✓		Marmik
23	150990135029	PATEL MITULKUMAR PRAKASHBHAI	✓		✓		Mitulk
24	150990135031	PATEL NIKITA RAJESHBHAI	✓		✓		Nikita
25	150990135032	PATEL PRIYAKUMARI THAKORBHAI	✓		✓		Priya
26	150990135033	PATEL PRIYANKABEN RAJESHKUMAR	✓		✓		Priyanka
27	150990135034	PATEL PRUTHVISH	✓		✓		Pruthvi
28	150990135035	PATEL SUMITKUMAR ASHOKBHAI	✓		✓		Sumit
29	150990135036	RATHOD ROMABEN VIRENDRASINH	✓		✓		Romab
30	150990135037	RAVAL AVANI VASUDEV	✓		✓		Avani
31	150990135038	SHAH AKSHITA KAPIL	✓		✓		Akshita
32	150990135039	SINGH ANANT PANKAJ	✓		✓		Anant
33	150990135040	SOLANKI PIYUSHKUMAR CHANDUBHAI	✓		✓		Piyush
34	150990135041	SUNVA SHRADDHAKUMARI HARENDRASINH	✓		✓		Shraddha
35	150990135043	VANSADIA RAHULRAJ PRAKRAMSINH	✓		✓		Rahul
36	150990135045	VIBHUTIBEN DELWADIYA	✓		✓		Vibhuti
37	150990135046	YADAV VIRBHADRASINH	✓		✓		Virbhadr
38	140990135023	MODI JIGAR	✓		✓		Jigar
39	140990135034	KEYA PATEL	✓		✓		Keya
40	140990135039	PATEL VIDHIBEN YOGESHKUMAR	✓		✓		Vidhi
41	130990135043	SAIN RONAK	✓		✓		Ronak
DAQM: Design of Air quality modelling and air pollution control system			DSPCS: Design of Soil pollution control system				
NWTS: Newer Waste Treatment System			WRM: Water Resource Management				
signature of class coordinator			signature of HOD				

Selection of Department Elective Subjects					
Batch: 2015					
Semester: VIII					
S.No	Enrolment No.	Name of students	Name of Elective subject-1		Student's Signatures
			SDGT	WSM	
1	150990135002	ANTALA KWINAL PANKAJKUMAR	✓		Kawal
2	150990135004	BARAD VISHVALEET	✓		Ushvayal
3	150990135005	BORKHTRIYA VIJAY JAGMALBHAI	✓		Vijay
4	150990135006	CHANDI GRA KHYATI DHIRAJ	✓		Im
5	150990135007	CHAVDA DEEP ASHWINIBHAI	✓		Deep
6	150990135008	DHRUVIBEN PANKAJBHAI SHAH	✓		Dhruv
7	150990135009	DIPE NKUMAR	✓		Dipe
8	150990135011	GAJERA DIVYANG CHANDULAL	✓		Divy
9	150990135012	GANDHI TIRTHESH RASHMIKANT	✓		Hizher
10	150990135013	GHODASARA DRASHTIBEN ANILBHAI	✓		Drashti
11	150990135014	HEMALI DHARME NDRASINH RAJ	✓		Hemali
12	150990135015	KAMALIYA NARESHBHAI BABADHAI	✓		Naresh
13	150990135016	KESHABAHEEN UPENDRASINH DODIYA	✓		Kesha
14	150990135017	LAKHANI KENABEN SANJAYBHAI	✓		Kan
15	150990135018	LIMBACHIYA UPASANA KIRITKUMAR	✓		Upasana
16	150990135019	MANSI	✓		Mansi
17	150990135022	PAL ROSHANI SUBEDAR	✓		Roshni
18	150990135023	PALAK SAXENA	✓		Palak
19	150990135024	PAREKH AASTHA RAJENDRAKUMAR	✓		Aashtra
20	150990135025	PAREKH KISHANKUMAR MEHULBHAI	✓		Kishka
21	150990135026	PATEL HARIKRISHNA GUNVANTBHAI	✓		Hari
22	150990135028	PATEL MARMIK PARESHKUMAR	✓		Marmik
23	150990135029	PATEL MITULKUMAR PRAKASHBHAI	✓		Mitulk
24	150990135031	PATEL NIKITA RAJESHBHAI	✓		Nikita
25	150990135032	PATEL PRIYAKUMARI THAKORBHAI	✓		Priya
26	150990135033	PATEL PRIYANKABEN RAJESHKUMAR	✓		Priyanka
27	150990135034	PATEL PRUTHVISH	✓		Pruthvish
28	150990135035	PATEL SUMITKUMAR ASHOKBHAI	✓		Sumit
29	150990135036	RATHOD ROMABEN VIRENDRASINH	✓		Rod
30	150990135037	RAVAL AVANI VASUDEV	✓		Avani
31	150990135038	SHAH AKSHITA KAPIL	✓		Akshita
32	150990135039	SINGH ANANT PANKAJ	✓		Anant
33	150990135040	SOLANKI PIYUSHKUMAR CHANDUBHAI	✓		Piyush
34	150990135041	SUNVA SHRADDHAKUMARI HARENDRASINH	✓		Sunva
35	150990135043	VANSADIA RAHULRAJ PRAKRAMSINH	✓		Rahul
36	150990135045	VIBHUTIBEN DELWADIYA	✓		Vibhuti
37	150990135046	YADAV VIRBHADRASINH	✓		Virbhadr
38	140990135023	MODI JIGAR	✓		Jigar
39	140990135034	KEYA PATEL	✓		Keya
40	140990135039	PATEL VIDHIBEN YOGESHKUMAR	✓		Vidhi
41	130990135043	SAIN RONAK	✓		Ronak

SDGT: Sustainable Development & Green Technologies

WSM: Water Supply & Management

signature of class coordinator

signature of HOD


