



Complete Course Grid and Syllabus

Diploma in Chemical Engineering

Rajiv Gandhi Institute of Petroleum Technology

RGPT Sivasagar Campus

Course: Diploma in Chemical Engineering

Total Number of Credits: 340

SEMESTER I					
Course Code	Subjects	L	T	P	Credits
MA101	Mathematics-I	3	1	0	11
PY101	Physics-I	3	1	0	11
CY101	Chemistry-I	3	0	0	9
ME101	Engineering Mechanics	2	1	0	8
CS101	Fundamentals of Computer Engineering	2	0	2	8
ME103L	Engineering Workshop Practices Laboratory	0	0	3	3
CY101L	Chemistry Laboratory	0	0	2	2
Total					52
HU101	Universal Human Values	1	1	0	5
L101	Communication Skills	2	0	1	7

SEMESTER II					
Course Code	Subjects	L	T	P	Credits
MA102	Mathematics-II	3	1	0	11
PY102	Physics-II	3	1	0	11
CY102	Chemistry-II	3	0	0	9
EE101	Fundamentals of Electrical and Electronics Engineering	3	1	0	11
CS102	Computer Programming	2	0	2	8
ME102L	Engineering Drawing	0	0	3	3
PY101L	Physics Laboratory	0	0	2	2
EE101L	Fundamentals of Electrical and Electronics Engineering Laboratory	0	0	2	2
Total					57
HU102	Community Internship	1	1	0	5

SEMESTER III					
Course Code	Subjects	L	T	P	Credits
ME202	Materials Engineering	3	0	0	9
CE201	Unit Operations -I	3	1	0	11
CE202	Materials and Energy Balance	3	1	0	11
CE203	Mechanical Operations	3	0	0	9
CE204	Chemical Technology	3	0	0	9
ME207L	Computer Aided Drafting Laboratory	0	0	2	2
CE201L	Unit Operations Laboratory-I	0	0	2	2
CE205	Group Discussion	0	0	2	2
Total					55

SEMESTER IV					
Course Code	Subjects	L	T	P	Credits
CE206	Unit Operations - II	3	1	0	11
CE207	Unit Operations - III	3	1	0	11
CE208	Petroleum Refinery Operations	3	0	0	9
CE209	Chemical Engineering Thermodynamics	3	0	0	9
CE210	Chemical Reaction Engineering	3	0	0	9
CE211	Process Plant Utilities	3	0	0	9
CE206L	Unit Operations Laboratory - II	0	0	2	2
CE210L	Chemical Reaction Engineering Laboratory	0	0	2	2
CE212	Seminar	0	0	2	2
Total					64

SEMESTER V					
Course Code	Subjects	L	T	P	Credits
CE301	Unit Operations - IV	3	1	0	11
CE302	Industrial Pollution and Control	3	0	0	9
CE303	Process Instrumentation and Control	3	0	0	9
	Open Elective	3	0	0	9
	Departmental Elective	3	0	0	9
HU301	Humanities	2	0	0	6
MT301	Engineering Economics	2	1	0	8
CE302L	Industrial Pollution and Control Laboratory	0	0	2	2
CE303L	Process Instrumentation and Control Laboratory	0	0	2	2
Total					65

SEMESTER VI					
Course Code	Subjects	L	T	P	Credits
CE308	Skill Development Certificate Course			x*	x*
CE309	Project			30-x	30-x
Total					30

Department Elective/Open Elective

S. No.	Code	Courses
1	CE304	Corrosion Engineering and Materials Selection
2	CE305	Energy Resources and Utilization
3	CE306	Natural Gas Engineering
4	CE307	Polymer Technology

Component distribution for diploma in Chemical Engineering					
Category	Program Components	Approved Range		Chemical	
		Min	Max	Existing	Recommended (Revised)
HU	Humanities and Social Science	12	24	16	16
IS	Institute Science Courses	50	80	66	66
IE	Institute Engineering Courses	40	70	48	48
EP	Engineering Drawing, Workshop	8	24	10	10
LM	Language and Management	8	20	15	15
DC	Departmental Core	125	160	156	137
DE	Departmental Elective	8	20	9	9
OE	Open Elective	8	20	9	9
DP	Project/ Industrial visit	20	50	20	30
	Total	340	360	349	340