



Complete Course Grid and Syllabus

Course Grid for Diploma in Petroleum Engineering

Rajiv Gandhi Institute of Petroleum Technology

RGIPT Sivasagar Campus

Course: Diploma in Petroleum 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
ME102L	Engineering Drawing	0	0	3	3
PY101L	Physics Laboratory	0	0	2	2
TOTAL					52
HU101	Universal Human Values	1	1	0	5
L101	Communication Skills*	2	0	1	7
*For selective students with less proficiency in English					

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
ME103L	Engineering Workshop Practices Laboratory	0	0	3	3
CY101L	Chemistry 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
PE201	Basics of Geological Science	3	0	0	9
PE202	Reservoir Engineering-I	3	1	0	11
PE203	Production Engineering-I	3	0	0	9
PE204	Drilling Engineering-I	3	0	0	9
CE201	Unit Operations -I	3	1	0	11
ME206	Engineering Thermodynamics	3	0	0	9
CE201L	Unit Operations Laboratory-I	0	0	2	2
PE201L	Geology Laboratory	0	0	2	2
PE205	Group Discussion	0	0	2	2
TOTAL					64

SEMESTER IV					
Course Code	Subjects	L	T	P	Credits
PE206	Reservoir Engineering-II	3	1	0	11
PE207	Basics of Petroleum Refinery	3	0	0	9
PE208	Drilling Engineering-II	3	1	0	11
PE209	Production Engineering-II	3	0	0	9
PE210	Health, Safety and Environment Management	3	0	0	9
PE204L	Drilling Fluid and Cementation Laboratory	0	0	2	2
PE202L	Reservoir Engineering Laboratory	0	0	2	2
PE211	Seminar	0	0	2	2
TOTAL					55

SEMESTER V					
Course Code	Subjects	L	T	P	Credits
PE301	Workover and Well Stimulation	3	1	0	11
PE302	Petroleum Formation Evaluation	3	1	0	11
PE303	Offshore Oil and Gas Operations	3	0	0	9
HU301	Humanities	2	0	0	6
MT301	Engineering Economics	2	1	0	8
	Departmental Elective	3	0	0	9
	Open Elective	3	0	0	9
PE307L	Petroleum Product Testing Laboratory	0	0	2	2
TOTAL					65

SEMESTER VI					
Course Code	Subjects	L	T	P	Credits
PE308	Skill Development Certificate Course			x*	x*
PE309	Project			30-x	30-x
TOTAL					30

Subject Code	Departmental Elective/Open Elective
PE304	City Gas Distribution
PE305	Unconventional Oil and Gas Resources
PE306	Pipeline Transportation of Oil & Gas

Component distribution for diploma in Petroleum Engineering					
Category	Program Components	Approved Range		Petroleum	
		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	68	59
EP	Engineering Drawing, Workshop	8	24	10	10
LM	Language and Management	8	20	15	15
DC	Departmental Core	125	160	131	126
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	344	340