



Complete Course Grid and Syllabus

Diploma in Mechanical Engineering
Rajiv Gandhi Institute of Petroleum Technology
RGPT Sivasagar Campus

Course: Diploma in Mechanical 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
ME201	Materials Science	3	0	0	9
ME204	Fluid Mechanics	3	1	0	11
ME205	Manufacturing Technology-I	3	1	0	11
ME206	Engineering Thermodynamics	3	0	0	9
ME208	Strength of Materials	3	1	0	11
ME209	Renewable and Alternative Energy Sources	3	1	0	11
ME207L	Computer Aided Drafting Laboratory	0	0	2	2
CE201L	Unit Operations Laboratory-I	0	0	2	2
ME210	Group Discussion	0	0	2	2
TOTAL					68

SEMESTER IV					
Course Code	Subjects	L	T	P	Credits
ME211	Theory of Machines	3	1	0	11
ME212	Heat and Mass Transfer	3	1	0	11
ME213	Applied Thermodynamics	3	1	0	11
ME215	Design of Machine Elements	3	1	0	11
ME214	Manufacturing Technology – II	3	1	0	11
ME216	Mechatronics and Industrial Automation	3	0	0	9
ME218L	Workshop Technology Laboratory	0	0	3	3
ME217	Seminar	0	0	2	2
TOTAL					69

SEMESTER V					
Course Code	Subjects	L	T	P	Credits
ME301	Pipe Hydraulics and Hydraulic Machinery	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
ME306L	Applied Mechanics Laboratory	0	0	3	3
ME307L	Advanced Workshop Technology Laboratory	0	0	3	3
TOTAL					47

SEMESTER VI					
Course Code	Subjects	L	T	P	Credits
ME308	Skill Development Certificate Course			x*	x*
ME309	Project			30-x	30-x
TOTAL					30

Subject Code	Departmental Elective/Open Elective
ME302	Power Plant Engineering
ME303	Quality Control and Metrology
ME304	Offshore and Cross-Country Pipeline
ME305	Industrial Engineering and Management

Component distribution for diploma in Mechanical Engineering					
Category	Program Components	Approved Range		Mechanical	
		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	67	50
EP	Engineering Drawing, Manufacturing Practices, and Practice course of Department	8	24	16	16
LM	Language and Management	8	20	15	15
DC	Departmental Core	125	160	136	129
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	354	340