



Complete Course Grid and Syllabus

Diploma in Electrical Engineering

Rajiv Gandhi Institute of Petroleum Technology

RGIPT Sivasagar Campus

Course: Diploma in Electrical Engineering

Total Number of Credits: 348

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
EE201	Electrical Circuit Analysis	3	1	0	11
EE202	Electrical Machines-I	3	1	0	11
EE203	Analog Electronic Circuits	3	0	0	9
EE204	Digital Circuits	3	0	0	9
ME203	Materials Science and Engineering	3	0	0	9
MA201	Transform Calculus	3	1	0	11
EE202L	Electrical Machines-I Laboratory	0	0	2	2
EE203L	Analog Electronic Circuits Laboratory	0	0	2	2
EE204L	Digital Circuits Laboratory	0	0	2	2
EE205	Group Discussion	0	0	2	2
Total					68

SEMESTER IV					
Course Code	Subjects	L	T	P	Credits
EE206	Electrical Machines-II	3	1	0	11
EE207	Microprocessor and Microcontroller	3	0	0	9
EE208	Linear Control System	3	0	0	9
EE209	Electrical and Electronic Measurements	3	0	0	9
EE210	Transmission and Distribution of Electrical Power	3	0	0	9
EE211	Switchgear and Protection	3	0	0	9
EE206L	Electrical Machines-II Laboratory	0	0	2	2
EE207L	Microprocessor and Microcontroller Laboratory	0	0	2	2
EE209L	Electrical and Electronic Measurements Laboratory	0	0	2	2
EE212	Seminar	0	0	2	2
Total					64

SEMESTER V					
Course Code	Subjects	L	T	P	Credits
EE301	Power Electronics and Drives	3	1	0	11
EE302	Energy Conservation and Audit	3	1	0	11
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
EE301L	Power Electronics and Drives Laboratory	0	0	2	2
EE306L	Power System laboratory	0	0	2	2
EE307L	Linear Control system Laboratory	0	0	2	2
Total					60

SEMESTER VI					
Course Code	Subjects	L	T	P	Credits
EE308	Skill Development Certificate Course			x*	x*
EE309	Project			30-x	30-x
Total					

Department Elective/Open Elective	
EE303	Electric Vehicles
EE304	Electrical Safety
EE305	Industrial Electrical Systems

Component distribution for diploma in Electrical Engineering					
Category	Program Components	Approved Range		Electrical	
		Min	Max	Existing	Recommended (Revised)
HU	Humanities and Social Science	12	24	16	16
IS	Institute Science Courses	50	80	77	77
IE	Institute Engineering Courses	40	70	68	46
EP	Engineering Drawing, Workshop	8	24	10	10
LM	Language and Management	8	20	15	15
DC	Departmental Core	125	160	132	136
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	356	348