

Complete Course Grid and Syllabus

Diploma in Electronics and Instrumentation Engineering Rajiv Gandhi Institute of Petroleum Technology

RGIPT Sivasagar Campus

Course: Diploma in Electronics and Instrumentation Engineering

Total Number of Credits: 341

SEMESTER I						
Course Code	Course Code Subjects L				Credits	
MA101	Mathematics-I	3	1	0	11	
PY101	Physics-I 3 1 0		11			
CY101	Y101 Chemistry-I		0	0	9	
ME101	E101 Engineering Mechanics		1	0	8	
CS101	Fundamentals of Computer Engineering		0	2	8	
ME103L	BL Engineering Workshop Practices Laboratory 0 0 3		3	3		
CY101L	CY101L Chemistry Laboratory		0	2	2	
Total						
HU101	Universal Human Values	1	1	0	5	
L101	L101 Communication Skills			1	7	

SEMESTER II						
Course Code	Course Code Subjects L T P					
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	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	
EIE201	Digital Electronics	3	0	0	9	
EIE202	Analog Electronics	3	0	0	9	
EIE203	Linear Integrated Circuits	2	1	0	8	
ME 203	Materials Science and Engineering	3	0	0	9	
EIE204	Instrumentation and Transducers	3	0	0	9	
MA201	Transform Calculus	3	1	0	11	
EIE201L	Digital Electronics Laboratory	0	0	2	2	
EIE202L	Analog Electronics Laboratory	0	0	2	2	
EIE203L	Linear Integrated Circuits Laboratory	0	0	2	2	
EIE205	Group Discussion	0	0	2	2	
Total					63	

Course Code	Subjects	L	T	P	Credits
EIE206	Electronic Circuits	3	1	0	11
EIE208	Basics of Control System	3	0	0	9
EIE209	Microprocessors and Applications	3	0	0	9
EIE210	Electronic Instruments and Measurements	3	0	0	9
EIE211	Principles of Communication Engineering	3	0	0	9
EIE212	Industrial Process Control and Automation	3	0	0	9
EIE209L	Microprocessors and Applications Laboratory	0	0	2	2
EIE210L Electronic Instruments and Measurements Laboratory		0	0	2	2
EIE207	Seminar	0	0	2	2

SEMESTER V					
Course Code	Subjects	L	T	P	Credits
EIE301	Power Electronics	3	1	0	11
EIE302	EIE302 PCB Design and Embedded System		1	0	11
HU301	HU301 Humanities		0	0	6
MT301 Engineering Economics		2	1	0	8
	Departmental Elective	3	0	0	9
	Open Elective	3	0	0	9
EIE301L	Power Electronics Laboratory	0	0	2	2
EIE302L	PCB Design and Embedded System Laboratory	0	0	2	2
EIE306L	Control and Automation Laboratory	0	0	2	2
Total					60

SEMESTER VI						
Subjects	L	T	P	Credits		
Skill Development Certificate Course			x*	х*		
Project			30-x	30-x		
Total						
	Subjects Skill Development Certificate Course Project	Subjects L Skill Development Certificate Course Project	Subjects L T Skill Development Certificate Course Project	SubjectsLTPSkill Development Certificate Coursex*Project30-x		

Department Elective/Open Elective						
EIE303 Biomedical Electronics & Instrumentation						
EIE304	Troubleshooting of Electronic Equipment					
EIE305	Signals & Systems					

^{*}EIE306 and EIE306L Microprocessor and Microcontroller and Microprocessor and Microcontroller Laboratory respectively are offered to CSE and EE Disciplines.

Category	Program Component	Min	Max	Existing	Recommended (Revised)
HU	Humanities and Social Sciences	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 & Management	8	20	15	15
DC	Departmental Core	125	160	132	129
DE	Departmental Elective	8	20	9	9
OE	Open Elective	8	20	9	9
DP	Project/Industry Visit	20	50	20	30
	Total (Range min to max)	340	360	356	341

^{*}EIE214 and EIE214L Digital Logic Circuits and Digital Logic Circuits Laboratory respectively are offered to CSE Discipline.