

Group I: Power Engineering

Course code	Course title	Credits		Contact hours/week	
		<i>Theor y</i>	<i>Practi cal</i>	<i>Theor y</i>	<i>Practic al</i>
EEE 4161	Electrical Machine III	3		3	
EEE 4163	Electric Drives and Control	3		3	
EEE 4165	Renewable Energy	3		3	
EEE 4166	Renewable Energy Sessional		1.5		3
EEE 4167	Power Plant Engineering	3		3	
EEE 4261	Smart Grids	3		3	
EEE 4263	Power System Operation and Control	3		3	
EEE 4265	Power System Reliability	3		3	
EEE 4267	High Voltage Engineering	3		3	
EEE 4268	High Voltage Engineering Sessional		1.5		3
EEE 4269	Nuclear Power Engineering	3		3	

Group II: Electronic Engineering

Course code	Course title	Credits	Contact hours/week

		<i>The ory</i>	<i>Prac tic al</i>	<i>The ory</i>	<i>Prac tical</i>
EEE 4181	VLSI Circuit Design I	3		3	
EEE 4182	VLSI Circuit Design I Sessional		1.5		3
EEE 4183	Analog Integrated Circuits	3		3	
EEE 4184	Analog Integrated Circuits Sessional		1.5		3
EEE 4185	Semiconductor Processing and Fabrication	3		3	
EEE 4187	Embedded Systems	3		3	
EEE 4281	Semiconductor and Nanodevices	3		3	
EEE 4283	Nanoelectronics and Nanotechnology	3		3	
EEE 4285	Compound Semiconductor Devices	3		3	
EEE 4287	VLSI Circuit Design II	3		3	
EEE 4288	VLSI Circuit Design II Sessional		1.5		3
EEE 4289	Optoelectronics	3		3	

Group III: Communication Engineering

Course code	Course title	Credits	Contact hours/week

		<i>The ory</i>	<i>Prac tic al</i>	<i>The ory</i>	<i>Prac tical</i>
EEE 4151	Wireless Communication	3		3	
EEE 4153	Telecommunication Engineering	3		3	
EEE 4155	Microwave Engineering	3		3	
EEE 4156	Microwave Engineering Sessional		1.5		3
EEE 4157	Optical Fibre Communication	3		3	
EEE 4251	Random Signals and Processes	3		3	
EEE 4253	Digital Signal Processing II	3		3	
EEE 4255	Digital Communication	3		3	
EEE 4256	Digital Communication Sessional		1.5		3

Group IV: Computer Engineering

Course code	Course title	Credits		Contact hours/week	
		<i>The ory</i>	<i>Prac tic al</i>	<i>The ory</i>	<i>Prac tical</i>
CSE 4151	Data Structures and Algorithms	3		3	
CSE 4153	Machine Learning	3		3	

CSE 4155	Computer System Architecture	3		3	
CSE 4251	Computer Networks	3		3	
CSE 4253	Database Management System	3		3	
CSE 4255	Computer Vision	3		3	
CSE 4256	Computer Vision Sessional		1.5		3

Interdisciplinary Courses

Course code	Course title	Credits		Contact hours/week	
		Theory	Practical	Theory	Practical
BME 4191	Biomedical Electronics	3		3	
IPE 4193	Industrial Automation Systems	3		3	
IPE 4194	Industrial Automation Systems Sessional		1.5		3
IPE 4291	Industrial Communications and Sensor Networks	3		3	
IPE 4293	Computer-Aided Design and Manufacturing	3		3	
IPE 4294	Computer-Aided Design and Manufacturing Sessional		1.5		3



Excellence in Higher Education and Research

EEE 4295	Instrumentation and Measurement				
EEE 4296	Instrumentation and Measurement Sessional				