



NATIONAL INSTITUTE OF TECHNOLOGY SIKKIM

Barfung Block, Ravangla Sub Division, South Sikkim-737139

Department of Electrical and Electronics Engineering

Even Semester Subjects

Semester	Subject Code	L-T-P	Subject	Credits
Semester IV	MA2002	3-1-0	Mathematics - IV	3
	EE2005	3-0-0	Circuits & Networks	3
	EE2006	3-0-0	Applied Electromagnetics	3
	EE2007	3-0-0	Electrical Machines – I	3
	EE2008	3-0-0	Analog Electronic Circuits & Systems	3
	ME2007	3-0-0	Mechanical Engineering	3
	EE3008	3-0-0	Environmental Studies for Electrical Engineers (audit course)	3
	EE2092	0-0-3	Electrical Measurements Laboratory	2
	EE2093	0-0-3	Electronics Lab II	2
	Total	21-01-06		22+ 3 (audit)
Semester VI	EE3005	3-0-0	Digital Signal Processing	3
	EE3006	3-0-0	Power Systems - II	3
	EE3007	3-0-0	Power Electronics	3
		3-0-0	Elective - 3	3
		3-0-0	Elective - 4	3
	EE3092	0-0-3	Electrical Machines Lab – II	2
	EE3093	0-0-3	Mini Project	2
		Total	15-00-06	
Semester VIII	ME4104	3-0-0	Principles of Management	3
	EE4002	3-0-0	Instrumentation Systems	3
		3-0-0	Elective - 7	3
		3-0-0	Elective - 8	3
	EE4093	0-0-2	Seminar	1
	EE4094	0-0-3	Control Systems Lab	2
	EE4095	0-0-6	Project	4
		Total	12-00-11	

List of Electives for Semester VI (Elective – 3 and Elective - 4)

Semester	Subject Code	L-T-P	Subject	Credits
Semester VI	EE3031	3-0-0	Dynamic System Simulation	3
	EE3032	3-0-0	Digital Control Systems	3
	EE3033	3-0-0	Fuzzy Logic Systems	3
	EE3034	3-0-0	Electrical Machine Design	3
	EE3035	3-0-0	Biomedical Instrumentation	3
	EE3036	3-0-0	Illumination Engineering	3
	EE3037	3-0-0	Analog Filters	3
	EE3038	3-0-0	Power Semiconductor Devices	3
	EE3039	3-0-0	Advance Processor Architecture and System Organization	3
	EE3040	3-0-0	LT & HT Distribution Systems	3
	EE3041	3-0-0	DC Drives	3
	EE3042	3-0-0	Electrical Systems Design for Buildings	3

List of Electives for Semester VIII (Elective – 7 and Elective - 8)

Semester	Subject Code	L-T-P	Subject	Credits
Semester VIII	EE4031	3-0-0	Advanced Digital Signal Processing	3
	EE4032	3-0-0	Static VAR Compensation and Harmonic Filtering	3
	EE4033	3-0-0	Optimal and Adaptive Control	3
	EE4034	3-0-0	Power System Stability and Control	3
	EE4035	3-0-0	Flexible AC Transmission	3
	EE4036	3-0-0	Non-Linear System Analysis	3
	EE4037	3-0-0	Energy Auditing, Conservation and Management	3
	EE4038	3-0-0	Data Acquisition and Signal Conditioning	3
	EE4039	3-0-0	Advanced DC-AC Power Conversion	3
	EE4040	3-0-0	System Identification and Parameter Estimation	3
	EE4041	3-0-0	Power Quality	3
	EE4042	3-0-0	Digital Protective Relaying	3