

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING				
NATIONAL INSTITUTE OF TECHNOLOGY SIKKIM				
Course Structure for B.Tech, Batch:2023-2027				
Sl. No.	Subject Code	Subject Name	L-T-P	Credit
	1st Semester			
		Theory Subjects	L-T-P	Credit
1	MA11101	Mathematics I	3-1-0	4
2	PH11101	Engineering Physics	3-0-0	3
3	EE11101	Principles of Electrical Engineering	3-0-0	3
4	CS11101	Computer Programming and Problem Solving	3-0-0	3
5	HS11101	English Language and Literature	3-0-0	3
		Practical and Sessionals		
6	CS11201	Computer Programming Laboratory	0-0-3	2
7	PH11201	Engineering Physics Laboratory	0-0-2	1
8	EE11201	Electrical Engineering Laboratory	0-0-2	1
9	ME11201	Workshop Practice	0-0-3	2
10	HS11201	Language Laboratory I	0-0-2	1
		Total Credits		23
	2nd Semester			
		Theory Subjects	L-T-P	Credit
1	MA12101	Mathematics II	3-1-0	4
2	CY12101	Engineering Chemistry	3-0-0	3
3	EC12101	Electronics Devices and Circuits	3-0-0	3
4	CS12101	Foundation of Computing	2-0-0	2
5	CY12102	Health, Safety and Environment	2-0-0	2
6	HS12101	Human Values and Effective Communication	2-0-0	2
		Practical and Sessional		
7	CY12201	Engineering Chemistry Laboratory	0-0-3	2
8	CS12201	Computing Laboratory	0-0-3	2
9	EC12201	Electronics Engineering Laboratory	0-0-2	1
10	ME12202	Engineering Graphics	0-0-3	2
11	HS12201	Language Laboratory II	0-0-2	1
12	ZZ12202	Behaviour and Discipline	-	Audit
		Total Credits		24
	3rd Semester			
		Theory Subjects	L-T-P	Credit
1	EE13101	Circuit Theory	3-0-0	3
2	EE13102	Analog Electronic Circuits and Systems	3-0-0	3
3	EE13103	Electrical and Electronics Measurements	3-0-0	3
4	EE13104	Digital Electronics	3-0-0	3
5	EE13105	Electrical Machines I	3-0-0	3
6	EE13106	Computational Mathematics	3-1-0	4
		Practical and Sessionals		
7	EE13201	Circuit Theory Laboratory	0-0-2	1
8	EE13202	Electronics Laboratory	0-0-2	1
9	EE13203	Measurements Laboratory	0-0-2	1
10	EE13204	Electrical Machines Laboratory I	0-0-3	2
11	ZZ13201	Professional Practice I	0-0-2	Audit
		Total Credits	18-1-11	24
	4th Semester			
		Theory Subjects	L-T-P	Credit
1	EE14101	Numerical Analysis and Programming	3-0-0	3
2	EE14102	Network Analysis and Synthesis	3-0-0	3
3	EE14103	Engineering Materials	3-0-0	3

4	EE14104	Microprocessor and Microcontroller	3-0-0	3
5	EE14105	Power Transmission and Distribution	3-0-0	3
6	EE14106	Electrical Machines II	3-0-0	3
		Practical and Sessionals		
7	EE14201	Numerical Analysis and Programming Laboratory	0-0-2	1
8	EE14202	Computer System Design Laboratory	0-0-2	1
9	EE14203	Power Systems Laboratory I	0-0-2	1
10	EE14204	Electrical Machines Laboratory II	0-0-3	2
11	ZZ14201	Professional Practice II	0-0-2	Audit
12	ZZ14202	Behaviour and Discipline	-	Audit
	Total Credits		18-0-11	23
	5th Semester			
		Theory Subjects	L-T-P	Credit
1	HS15101	Engineering Economics and Management	3-0-0	3
2	EE15101	Digital Signal Processing	3-0-0	3
3	EE15102	Power Generation and Economics	3-0-0	3
4	EE15103	Control Systems	3-0-0	3
5	EE15104	Power Electronics	3-0-0	3
6	EE15106	Artificial Intelligence	3-0-0	3
		Practical and Sessional Subjects		
7	EE15202	Renewable Energy Systems Laboratory	0-0-2	1
8	EE15203	Control Systems Laboratory I	0-0-2	1
9	EE15204	Power Electronics Laboratory	0-0-2	1
10	EE15205	Artificial Intelligence Laboratory	0-0-2	1
11	ZZ15201	Professional Practice III	0-0-2	Audit
	Total Credits		18-0-10	22
	6th Semester			
		Theory Subjects	L-T-P	Credit
1	HS16102	Entrepreneurship and Startup	2-0-0	2
2	EE16101	Electric Drives	3-0-0	3
3	EE16102	Advanced Control Systems	3-0-0	3
4	EE16103	Power System Protection and Switchgear	3-0-0	3
5	EE16104	Machine Learning	3-0-0	3
6	EE16105	Communication Systems	3-0-0	3
		Practical and Sessionals		
7	EE16201	Drives Laboratory	0-0-2	1
8	EE16202	Control Systems Laboratory II	0-0-2	1
9	EE16203	Power Systems Laboratory II	0-0-2	1
10	EE16204	Machine Learning Laboratory	0-0-2	1
11	ZZ16201	Professional Practice IV	0-0-2	Audit
12	ZZ16202	Behaviour and Discipline	-	Audit
	Total Credits		17-0-10	21
	7th Semester			
		Theory Subjects	L-T-P	Credit
1	EE17101	Power System Stability and Control	3-0-0	3
2	EE171xx	Elective I	3-0-0	3
3	EE171xx	Elective II	3-0-0	3
4	--	Elective III/Open Elective	3-0-0	3
		Practical and Sessionals		
6	EE17201	Power Systems Laboratory III	0-0-2	1
7	EE172**	Laboratory I	0-0-2	1
8	EE17203	Comprehensive Viva-voce	0-0-2	1
9	EE17204	Practical Training Evaluation	0-0-2	2

10	EE17205	Project Part I	0-0-8	4
	Total Credits		12-0-18	22
	8th Semester			
		Theory Subjects	L-T-P	Credit
1	EE181xx	Elective-IV	3-0-0	3
2	EE181xx	Elective -V	3-0-0	3
3	--	Open Elective/Elective VI	3-0-0	3
		Practical and Sessionals		
4	EE182xx	Laboratory II	0-0-2	1
5	EE182xx	Laboratory III	0-0-2	1
6	EE18201	Project Part II	0-0-12	6
7	ZZ18201	Behaviour and Discipline	-	Audit
	Total Credits		9-0-16	17