

COURSE CONTENT for *Electrical Engineering* [EE]

1st Semester							
A. Theory							
Sl. NO.	Course Code	Topic	Contacts Periods/Week				Credits
			L	T	P	Total	
1	HU 101	English Language & Communication	2	1	0	3	3
2	PH 101	Engineering Physics	3	1	0	4	4
3	M 101	Mathematics	3	1	0	4	4
4	ME 101	Mechanical Sciences	3	1	0	4	4
5	EE 101	Basic Electrical Engineering	3	1	0	4	4
6	CH 101	Environment & Ecology	3	0	0	3	3
Total Theory						22	22
B. Practical							
7	PH 191	Engineering Physics Lab	0	0	3	3	2
8	EE 191	Electrical Engineering Lab	0	0	3	3	2
9	ME 191	Engineering Graphics	0	0	3	3	2
10	ME 192	Workshop Practical	0	0	3	3	2
Total Practical						12	8
Total of Semester						34	30

2nd Semester

A. Theory

Sl. NO.	Course Code	Topic	Contacts Periods/Week				Credits
			L	T	P	Total	
1	PH 201	Engineering Physics	4	0	0	4	4
2	M 201	Mathematics	3	1	0	4	4
3	ME 201	Mechanical Sciences	3	0	0	3	3
4	CS 201	Introduction to Computing	2	1	0	3	3
5	EC 201	Basic Electrical Engineering	3	1	0	4	4
6	CH 201	Engineering Chemistry	3	0	0	3	3
Total Theory						21	21
B. Practical							
7	PH 291	Engineering Physics Lab	0	0	3/2	3/2	1
8	CH 291	Engineering Chemistry Lab	0	0	3/2	3/2	2
9	CS 291	Computing Lab	0	0	3	3	2
10	EC 291	Electronics Engineering Lab	0	0	3	3	2
11	ME 291	Engineering Graphics	0	0	3	3	2
12	ME 292	Workshop Practical	0	0	3	3	2
Total Practical						15	10
Total of Semester						36	31

3rd Semester

A. Theory

Sl. NO.	Course Code	Topic	Contacts Periods/Week				Credits
			L	T	P	Total	
1	MS(EE)-301	Electrical Engineering Materials	3	0	0	3	3
2	EE 302	Electrical and Electronics measurement	3	1	0	4	4
3	EE 301	Data Structure & Algorithms	3	1	0	4	4
4	CS 302	Data Structure & Algorithms	3	1	0	4	4
5	M 302	Mathematics	3	1	0	4	4
6	CS 312	Numerical Methods & Programming	3	0	0	3	3
Total Theory						22	22
B. Practical							
7	EE 391	Circuit Theory & Networks Lab	0	0	3	3	2
8	EE 392	Electrical and Electronics measurement	0	0	3	3	2
9	CS 392	Data Structure Lab	0	0	3	3	2
10	CS 382	Numerical Methods & Programming Lab	0	0	3	3	2
Total Practical						12	8
Total of Semester						34	30

4th Semester

A. Theory

Sl. NO.	Course Code	Topic	Contacts Periods/Week				Credits
			L	T	P	Total	
1	EE 401	Electrical Machines-I	3	1	0	4	4
2	EC (EE) 401	Analog Electronic Circuits	3	0	0	3	3
3	EC (EE) 402	Digital Electronics & Integrated Circuits	3	1	0	4	4
4	EE 402	Electromagnetic Field Theory	3	0	0	3	3
5	ME (EE) 411	Thermal Power Engineering	3	1	0	4	4
Total Theory						18	18
B. Practical							
6	EE 491	Electrical Machine Lab	0	0	3	3	2
7	EC (EE) 491	Analog Electronic Circuits Lab	0	0	3	3	2
8	EC (EE) 492	Digital Electronics & Integrated Circuits Lab	0	0	3	3	2
9	ME (EE) 481	Thermal Power Engineering Lab	0	0	3	3	2
Total Practical						12	8
C. Sessional							
10	HU(EE) 481	Technical Report writing & /	0	0	0	3	2
		Language Practice Lab					
Total Sessional						3	2
Total of Semester						33	28

5th Semester

A. Theory

Sl. NO.	Course Code	Topic	Contacts Periods/Week				Credits
			L	T	P	Total	
1	EE 501	Electrical Machines - II	3	1	0	3	3
2	EE 502	Power System - I	3	0	0	3	3
3	EE 503	Control Systems-I	3	1	0	4	4
4	EE 504	Power Electronics	3	1	0	4	4
5	CS 513	System Prog. & Operating System	3	1	0	4	4
Total Theory						18	18
B. Practical							
6	EE 591	Electrical Machines Laboratory	0	0	3	3	2
7	EE 592	Power System Lab	0	0	3	3	2
8	EE 593	Control Systems Lab	0	0	3	3	2
9	EE 594	Power Electronics Laboratory	0	0	3	3	2
Total Practical						12	8
C. Sessional							
			0	0	0	0	0
Total of Semester						30	26