

Scheme – I & II Semesters Combined

Scheme – I & II (Common to all branches)

Course Code	Course No.	Subject	Teaching Period			Duration of Uty. Exam (hrs)	Marks			
			Lect.	Tut.	Prac.		Sessional	Theory	Practical	Total
	CME LRPTA									
A	101	Engineering Mathematics I	3	1	-	3	50	100	-	150
B	102	Engineering Physics	1	1	-	3	50	100	-	150
C	103	Engineering Chemistry	1	1	-	3	50	100	-	150
D	104	Engineering Mechanics	2	2	-	3	50	100	-	150
E	105	Engineering Graphics	1	-	3	3	50	100	-	150
F	106	Basic Civil Engineering	1	1	-	3	50	100	-	150
G	107	Basic Mechanical Engineering	1	1	-	3	50	100	-	150
H	108	Basic Electrical Engineering	1	1	-	3	50	100	-	150
I	109	Basic Electronics Engineering	1	1	-	3	50	100	-	150
J	110	Workshop	-	-	6*	-	50x3	-	-	150
		Total	12	9	9	-	600	900	-	1500

*3 periods will be in Mechanical Engineering Workshop and 3 periods in Civil Engineering Workshop & Electrical Engineering Workshop alternately.

3RD SEMESTER

Course Code	Course No.	Subject	Teaching Hours				Duration of Univ. Exam(Hrs.)	Maximum Marks		
			L	T	P	Total		Sessional	University	Total
A	CMEL PA 301	Engineering Mathematics -II	3	1		4	3	50	100	150
B	E 302	Mechanical Technology	3	1		4	3	50	100	150
C	E 303	Electric Circuit Theory	2	2		4	3	50	100	150
D	E 304	Electromagnetic Theory	3	1		4	3	50	100	150
E	E 305	Electical and Electonic Measurements	2	1		3	3	50	100	150
F	E 306	Power Generation & Distribution	2	1		3	3	50	100	150
G	E 307	Basic Electrical Lab			4	4	3	50	100	150
H	E 308	Mechanical Lab*			4	4	3	50	100	150
		Total	15	7	8	30	24	400	800	1200

*Mechanical Lab consists of: 1) Hydraulic Machines Lab & 2) Heat Engines Lab. University Exam will be either in Hydraulic Machines Lab or Heat Engines Lab.

4TH SEMESTER

Course Code	Course No.	Subject	Teaching Hours				Duration of Univ. Exam(Hrs.)	Maximum Marks		
			L	T	P	Total		Sessional	University	Total
A	CMELR PTA 401	Engineering Mathematics -III	3	1		4	3	50	100	150
B	E 402	Network Analysis & Synthesis	2	1		3	3	50	100	150
C	E 403	Electronic Circuits	3	1		4	3	50	100	150
D	E 404	Electrical Machines - I	3	1		4	3	50	100	150
E	E 405	Computer Programming	3	1		4	3	50	100	150
F	E 406	Electrical and Electronic Instruments	2	1		3	3	50	100	150
G	E 407	Electrical Measurements Lab			4	4	3	50	100	150
H	E 408	Computer Programming Lab			4	4	3	50	100	150
		Total	16	6	8	30	24	400	800	1200

3RD SEMESTER

Course Code	Course No.	Subject	Teaching Hours				Duration of Univ. Exam(Hrs.)	Maximum Marks		
			L	T	P	Total		Sessional	University	Total
A	CMEL PA 301	Engineering Mathematics -II	3	1		4	3	50	100	150
B	E 302	Mechanical Technology	3	1		4	3	50	100	150
C	E 303	Electric Circuit Theory	2	2		4	3	50	100	150
D	E 304	Electromagnetic Theory	3	1		4	3	50	100	150
E	E 305	Electical and Electonic Measurements	2	1		3	3	50	100	150
F	E 306	Power Generation & Distribution	2	1		3	3	50	100	150
G	E 307	Basic Electrical Lab			4	4	3	50	100	150
H	E 308	Mechanical Lab*			4	4	3	50	100	150
		Total	15	7	8	30	24	400	800	1200

*Mechanical Lab consists of: 1) Hydraulic Machines Lab & 2) Heat Engines Lab. University Exam will be either in Hydraulic Machines Lab or Heat Engines Lab.

4TH SEMESTER

Course Code	Course No.	Subject	Teaching Hours				Duration of Univ. Exam(Hrs.)	Maximum Marks		
			L	T	P	Total		Sessional	University	Total
A	CMELR PTA 401	Engineering Mathematics -III	3	1		4	3	50	100	150
B	E 402	Network Analysis & Synthesis	2	1		3	3	50	100	150
C	E 403	Electronic Circuits	3	1		4	3	50	100	150
D	E 404	Electrical Machines - I	3	1		4	3	50	100	150
E	E 405	Computer Programming	3	1		4	3	50	100	150
F	E 406	Electrical and Electronic Instruments	2	1		3	3	50	100	150
G	E 407	Electrical Measurements Lab			4	4	3	50	100	150
H	E 408	Computer Programming Lab			4	4	3	50	100	150
		Total	16	6	8	30	24	400	800	1200

5TH SEMESTER

Course Code	Course No.	Subject	Teaching Hours				Duration of Univ. Exam(Hrs.)	Maximum Marks		
			L	T	P	Total		Sessional	University	Total
A	CMEL PA 501	Engineering Mathematics -IV	3	1		4	3	50	100	150
B	E 502	Digital Circuits	3	1		4	3	50	100	150
C	E 503	Communication Engineering	2	1		3	3	50	100	150
D	E 504	Industrial management and Economics	3	2		5	3	50	100	150
E	E 505	Linear Integrated Circuits	2	1		3	3	50	100	150
F	E 506	Power Electronics	2	1		3	3	50	100	150
G	E 507	Electrical Machines Lab - I			4	4	3	50	100	150
H	E 508	Electronic Circuits Lab			4	4	3	50	100	150
		Total	15	7	8	30	24	400	800	1200

6TH SEMESTER

Course Code	Course No.	Subject	Teaching Hours				Duration of Univ. Exam(Hrs.)	Maximum Marks		
			L	T	P	Total		Sessional	University	Total
A	E 601	Control Systems - I	3	1		4	3	50	100	150
B	E 602	Electrical Machines - II	3	1		4	3	50	100	150
C	E 603	Electrical Power Transmission	3	1		4	3	50	100	150
D	E 604	Digital Signal Processing	2	1		3	3	50	100	150
E	E 605	Microprocessors and Applications	3	1		4	3	50	100	150
F	E 606	Computer Organisation	2	1		3	3	50	100	150
G	E 607	Digital Lab			4	4	3	50	100	150
H	E 608	Systems Lab			4	4	3	50	100	150
		Total	16	6	8	30	24	400	800	1200

7TH SEMESTER

Course Code	Course No.	Subject	Teaching Hours				Duration of Univ. Exam(Hrs.)	Maximum Marks		
			L	T	Prac./Proj.	Total		Sessional	University	Total
A	E 701	Electrical Machines -III	3	1		4	3	50	100	150
B	E 702	Electrical Drives and Control	2	1		3	3	50	100	150
C	E 703	Utilisation of Electrical Power	2	1		3	3	50	100	150
D	E 704	Control Systems - II	3	1		4	3	50	100	150
E	E 705	System Design with Microcontrollers	2	1		3	3	50	100	150
F	E 706	Elective - I	3	1		4	3	50	100	150
G	E 707	Electrical Drawing			3	3	3	50	100	150
H	E 708	Control and Power Electronics Lab			4	4	3	50	100	150
I	E 709	Project & Seminar*			2	2				
		Total	15	6	9	30	24	400	800	1200

*The Project Work will be started in the Seventh Semester. Sessional Marks for Seminar will be out of 25 and that for Project will be out of 75.

8TH SEMESTER

Course Code	Course No.	Subject	Teaching Hours				Duration of Univ. Exam(Hrs.)	Maximum Marks		
			L	T	Prac./Proj.	Total		Sessional	University	Total
A	E 801	Power System Analysis	3	1		4	3	50	100	150
B	E 802	Switch Gear and Protection	3	1		4	3	50	100	150
C	E 803	Instrumentation	2	1		3	3	50	100	150
D	E 804	Electrical System Design	3	1		4	3	50	100	150
E	E 805	Elective - II	3	1		4	3	50	100	150
F	E 806	Elective - III	2	1		3	3	50	100	150
G	E 807	Electrical Machines Lab -II			4	4	3	50	100	150
H	E 808	Project and Seminar**			4	4		100		100
I	E 809	Viva Voce							50	50
		Total	16	6	8	30	21	450	750	1200

**Sessional Marks for Seminar will be out of 25 and that for Project will be out of 75 in which 40 marks will be based on day to day performance assessed by the Guide. The remaining 35 marks are to be awarded based on the presentation of the project by the student in the presence of 2 staff members one of which shall be the Guide.