CURRICULAM & SCHEME OF EXAMINATIONS

ELECTRICAL & ELECTRONICS ENGINEERING

Curricula & Scheme of Examinations for B.Tech

Combined I & II Semesters (Common for all branches)

Code	Subject	Hrs / Week			Sessional Marks	University Exam	
		L	T	P/D		Hrs	Marks
THEORY							
2K6EN101	Engineering Mathematics I	2	1		50	3	100
2K6EN102	Engineering Physics	2			50	3	100
2K6EN103	Engineering Chemistry	2			50	3	100
2K6EN104	Engineering Mechanics	2	1		50	3	100
2K6EN105	Engineering Graphics	1		3	50	3	100
2K6EN106	Basic Civil Engineering	2	1		50	3	100
2K6EN107	Basic Mechanical Engineering	2	1		50	3	100
2K6EN108	Basic Electrical Engineering	2	1		50	3	100
2K6EN109	Basic Electronics and Computer Engineering	2	1		50	3	100
PRACTICAL							
2K6EN110 P	Basic Engineering Laboratory (Surveying, Fitting, Carpentry, Foundry, Smithy, Welding & Sheet metal)			2	50	-	-
2K6EN111 P	Basic Electrical & Electronics Workshop (Wiring, Soldering & Study of Basic Computer Hardware)			2	50	-	-
TOTAL		**17**	**6**	**7**	**550**		**900**

THIRD SEMESTER

Code	Subject	Hrs / Week			Sessional Marks	University Exam	
		L	T	P/D		Hrs	Marks
THEORY							
2K6EE 301	Engineering Mathematics II	3	1	-	50	3	100
2K6EE 302	Humanities	3	1	-	50	3	100
2K6EE 303	Mechanical Engineering	3	1	-	50	3	100
2K6EE 304	Electronic Circuits and Devices	3	1	-	50	3	100
2K6EE 305	Network Analysis	3	1	-	50	3	100
2K6EE 306	Electrical Measurements & Measuring Instruments	3	1	-	50	3	100
PRACTICAL							
2K6EE 307 P	Mechanical Engineering Lab	-	-	3	50	3	100
2K6EE 308 P	Basic Electronics Engg. Lab	-	-	3	50	3	100
TOTAL		**18**	**6**	**6**	**400**	-	**800**

FOURTH SEMESTER

Code	Subject	Hrs / Week			Sessional Marks	University Exam	
		L	T	P/D		Hrs	Marks
THEORY							
2K6EE 401	Engineering Mathematics III	3	1	-	50	3	100
2K6EE 402	Computer Programming	3	1	-	50	3	100
2K6EE 403	Microprocessors & Microcontrollers	3	1	-	50	3	100
2K6EE 404	Pulse and Digital Electronics	3	1	-	50	3	100
2K6EE 405	Electrical Machines I	3	1	-	50	3	100
2K6EE 406	Electrical Engineering Materials	3	1	-	50	3	100
PRACTICAL							
2K6EE 407 P	Digital Electronics Lab	-	-	3	50	3	100
2K6EE 408 P	Electrical Measurements Lab	-	-	3	50	3	100
TOTAL		**18**	**6**	**6**	**400**	-	**800**

FIFTH SEMESTER

Code	Subject	Hrs / Week			Sessional Marks	University Exam	
		L	T	P/D		Hrs	Marks
THEORY							
2K6EE 501	Engineering Mathematics IV	3	1	-	50	3	100
2K6EE 502	Environmental Studies & Disaster Mngt.	3	1	-	50	3	100
2K6EE 503	Field Theory	3	1	-	50	3	100
2K6EE 504	Electrical Machines II	3	1	-	50	3	100
2K6EE 505	Modern Communication Systems	3	1	-	50	3	100
2K6EE 506	Power systems – I	3	1	-	50	3	100
PRACTICAL							
2K6EE 507 P	Linear Integrated circuits Lab	-	-	3	50	3	100
2K6EE 508 P	Electrical Machines Lab- I	-	-	3	50	3	100
TOTAL		**18**	**6**	**6**	**400**	-	**800**

SIXTH SEMESTER

Code	Subject	Hrs / Week			Sessional Marks	University Exam	
		L	T	P/D		Hrs	Marks
THEORY							
2K6EE 601	Economics & Business Management	3	1	-	50	3	100
2K6EE 602	Power Electronics	3	1	-	50	3	100
2K6EE 603	Power Systems-II	3	1	-	50	3	100
2K6EE 604	Control Systems-I	3	1	-	50	3	100
2K6EE 605	Electrical Engg. Drawing	1	-	3	50	3	100
2K6EE 606	Elective - I	3	1	-	50	3	100
PRACTICAL							
2K6EE607P	Electrical Machines Lab-II	-	-	3	50	3	100
2K6EE608P	Power Electronics Lab	-	-	3	50	3	100
TOTAL		**16**	**5**	**9**	**400**	-	**800**

Elective I

2K6 EE 606 (A) - Electrical System Design & Estimation
2K6 EE 606 (B) - Energy Conservation
2K6 EE 606 (C) - Linear System analysis
2K6 EE 606 (D) - Cellular & Mobile Communication Systems
2K6 EE 606 (E) - Industrial Psychology
2K6 EE 606 (F) - Operations research

SEVENTH SEMESTER

Code	Subject	Hrs / Week			Sessional	University	
		L	T	P/D		Hrs	Marks
THEORY							
2K6EE 701	Industrial Management	3	1	-	50	3	100
2K6EE 702	Digital Signal Processing	3	1	-	50	3	100
2K6EE 703	Control Systems II	3	1	-	50	3	100
2K6EE 704	Power Systems III	3	1	-	50	3	100
2K6EE 705	Elective II	3	1	-	50	3	100
PRACTICAL							
2K6EE706P	Advanced Electrical Engg: Lab	-	-	3	50	3	100
2K6EE707P	Software Lab	-	-	3	50	3	100
2K6EE708P	Mini Project	-	-	4	50	-	-
2K6EE709P	Physical Edn., Health & Fitness	-	-	-	50	-	-
TOTAL		**15**	**5**	**10**	**450**	-	**700**

Elective II

2K6 EE 705(A) – High Voltage Engineering
2K6 EE 705(B) – Electrical Machine modelling & Analysis
2K6 EE 705(C) - Switched Mode Power Converters
2K6 EE 705(D) - Biomedical Engineering
2K6 EE 705(E) – Robotics & Artificial Intelligence
2K6 EE 705(F) - Entrepreneurship

EIGHTH SEMESTER

Code	Subject	Hrs / Week			Sessional	University	
		L	T	P/D		Hrs	Marks
THEORY							
2K6EE 801	Instrumentation Systems	3	1	-	50	3	100
2K6EE 802	Industrial Electric Drives	3	1	-	50	3	100
2K6EE 803	Electrical Machine design	3	1	-	50	3	100
2K6EE 804	Energy Technology	3	1	-	50	3	100
2K6EE 805	Elective III	3	1	-	50	3	100
PRACTICAL							
2K6EE806P	Seminar	-	-	4	50	-	-
2K6EE807P	Project & Industrial Training	-	-	6	100	-	-
2K6EE808P	Viva Voce	-	-	-	-	-	100
TOTAL		**15**	**5**	**10**	**400**	-	**600**
Aggregate marks for 8 semesters - 8400					**3000**		**5400**

Elective III

2K6 EE 805(A) – Power System Operation & Control
2K6 EE 805(B) – Special Machines & Linear Machines
2K6 EE 805(C) - Neural Networks & Fuzzy Logic
2K6 EE 805(D) – Digital System design
2K6 EE 805(E) –Satellite Communication Systems
2K6 EE 805(F) – HVDC & FACTS

*25 Marks is allocated for Industrial Training