

BE

09 - ELECTRICAL ENGINEERING

Sem

2024-25

Select Elective / Non-Elective

Subject Code

Enter Subject Name

Search

*L=lectures,T=tutorial,P=Practical,E=TheoryExternal,M=TheoryInternal,I=Practical Internal,V=Practical External,On Job Training(OJT) is equivalent to Practical

											Hours		Credit		Max Marks				
Exp.	Subcode	Branch code	Eff from	SubjectName	Category	Sem /Year	L.	T.	P.	TW/SL	Total	E	M	I	V				
	BE01000011	009	2024-25	Student Induction Program with essence of Indian Knowledge System	Mandatory Non-Credit Courses – Audit Course	1	0	0	0	NA	0	0	0	0	0				
	BE01000021	009	2024-25	Physics	Basic Science Courses	1	3	0	2	NA	4	70	30	20	30				
	BE01000031	009	2024-25	Chemistry	Basic Science Courses	1	3	0	2	NA	4	70	30	20	30				
	BE01000041	009	2024-25	Mathematics-I	Basic Science Courses	1	3	1	0	NA	4	70	30	0	0				
	BE01000051	009	2024-25	Basic Electrical Engineering	Engineering Science Courses	1	3	0	2	NA	4	70	30	20	30				
	BE01000061	009	2024-25	Engineering Graphics & Design	Engineering Science Courses	1	1	0	2	NA	2	70	30	20	30				
	BE01000071	009	2024-25	Design Thinking	Engineering Science Courses	1	0	0	4	NA	2	0	0	20	80				
	BE01000081	009	2024-25	Basic Mechanical Engineering	Engineering Science Courses	1	3	0	2	NA	4	70	30	20	30				
	BE01000111	009	2024-25	Basic Electronics Engineering	Engineering Science Courses	1	3	0	2	NA	4	70	30	20	30				
	BE01000121	009	2024-25	Programming for Problem Solving	Engineering Science Courses	1	2	0	4	NA	4	70	30	20	30				

	BE01000141	009	2024-25	Universal Human Values	Humanities and Social Science, including Management Courses	1	2	0	0	NA	2	70	30	0	0
	BE01000151	009	2024-25	Contributor Personality Development Program	Humanities and Social Science, including Management Courses	1	2	0	0	NA	2	70	30	0	0
	BE01000161	009	2024-25	Integrated Personality Development Course	Humanities and Social Science, including Management Courses	1	2	0	0	NA	2	70	30	0	0
	BE01000181	009	2024-25	Digital Fabrication Workshop	Engineering Science Courses	1	0	0	2	NA	1	0	0	20	80
	BE01R00011	009	2025-26	Student Induction Program with essence of Indian Knowledge System	Mandatory Non-Credit Courses – Audit Course	1	0	0	0	0	0	0	0	0	0
	BE01R00021	009	2025-26	Physics	Basic Science Courses	1	45	0	30	45	4	70	30	50	50
	BE01R00031	009	2025-26	Chemistry	Basic Science Courses	1	45	0	30	45	4	70	30	50	50
	BE01R00041	009	2025-26	Mathematics-I	Basic Science Courses	1	30	30	0	60	4	70	30	30	0
	BE01R00051	009	2025-26	Basic Electrical Engineering	Engineering Science Courses	1	45	0	30	45	4	70	30	50	50
	BE01R00061	009	2025-26	Engineering Graphics & Design	Engineering Science Courses	1	15	0	30	15	2	70	30	50	50
	BE01R00071	009	2025-26	Design Thinking	Engineering Science Courses	1	0	0	60	0	2	0	0	20	80
	BE01R00081	009	2025-26	Basic Mechanical Engineering	Engineering Science Courses	1	45	0	30	45	4	70	30	50	50
	BE01R00111	009	2025-26	Basic Electronics Engineering	Engineering Science Courses	1	45	0	30	45	4	70	30	50	50
	BE01R00121	009	2025-26	Programming for Problem Solving	Engineering Science Courses	1	30	0	60	30	4	70	30	50	50
	BE01R00141	009	2025-26	Universal Human Values	Humanities and Social Science, including Management Courses	1	30	0	0	30	2	70	30	30	0
	BE01R00151	009	2025-26	Contributor Personality Development Program	Humanities and Social Science, including Management Courses	1	30	0	0	30	2	70	30	30	0
	BE01R00161	009	2025-26	Integrated Personality Development Course	Humanities and Social Science, including Management Courses	1	30	0	0	30	2	70	30	30	0
	BE01R00181	009	2025-26	Digital Fabrication Workshop	Engineering Science Courses	1	0	0	30	0	1	0	0	20	80
	BE02000011	009	2024-25	Mathematics – 2	Basic Science Courses	2	3	1	0	NA	4	70	30	0	0
	BE02000021	009	2024-25	English for Technical Communication	Humanities and Social Science, including Management Courses	2	2	0	2	NA	3	70	30	20	30

	BE02000031	009	2024-25	Intellectual Property Rights	Multidisciplinary Open Professional Electives Courses	2	2	0	0	NA	2	70	30	0	0
	BE02000041	009	2024-25	Fundamental of AI	Multidisciplinary Open Professional Electives Courses	2	2	0	0	NA	2	70	30	0	0
	BE02000061	009	2024-25	Industrial Safety and Standards	Multidisciplinary Open Professional Electives Courses	2	2	0	0	NA	2	70	30	0	0
	BE03000051	009	2025-26	Professional Communication and Ethics	Humanities and Social Science, including Management Courses (Elective)	3	30	0	30	0	2	70	30	20	50
	BE03000061	009	2025-26	Indian Constitution	Core Courses	3	30	0	0	30	2	50	0	30	0
	BE03000191	009	2025-26	Numerical Methods for Electrical Engineering	Basic Science Courses	3	45	0	30	45	4	70	30	50	50
	BE03000241	009	2025-26	Indian Knowledge System for Engineering	Humanities and Social Science, including Management Courses (Elective)	3	30	0	30	0	2	70	30	20	50
	BE03009011	009	2025-26	Analog and Digital Electronics	Professional Core Courses	3	45	0	30	45	4	70	30	50	50
	BE03009021	009	2025-26	Electrical Machines I	Professional Core Courses	3	45	0	30	45	4	70	30	50	50
	BE03009031	009	2025-26	Electrical Circuit Analysis	Professional Core Courses	3	45	15	30	30	4	70	30	50	50
	BE05009011	009	2026-27	Elements of Electrical Design	Professional Elective - I	5	3	0	2	NA	4	70	30	20	30
	BE05009021	009	2026-27	High Voltage Engineering	Professional Elective - I	5	3	0	2	NA	4	70	30	20	30
	BE05009031	009	2026-27	Renewable Energy Technology	Professional Elective - II	5	3	0	2	NA	4	70	30	20	30
	BE05009041	009	2026-27	Distributed Generation & Microgrid	Professional Elective - II	5	3	0	2	NA	4	70	30	20	30
	BE05009051	009	2026-27	Electrical Engineering Materials	Multidisciplinary Open Professional Electives Courses	5	3	0	0	NA	3	70	30	0	0
	BE05009061	009	2026-27	Energy Audit and Management	Multidisciplinary Open Professional Electives Courses	5	3	0	0	NA	3	70	30	0	0
	BE06009011	009	2026-27	Smart Grid	Professional Elective - III	6	3	0	2	NA	4	70	30	20	30
	BE06009021	009	2026-27	Electrical Machine Design	Professional Elective - III	6	3	0	2	NA	4	70	30	20	30
	BE06009031	009	2026-27	HVDC Transmission	Professional Elective - IV	6	3	0	2	NA	4	70	30	20	30
	BE06009041	009	2026-27	Softwares for Electrical Engineering	Professional Elective - IV	6	3	0	2	NA	4	70	30	20	30
	BE06009051	009	2026-27	Electrical Power Utilization	Multidisciplinary Open Professional Electives Courses	6	3	0	0	NA	3	70	30	0	0
	BE06009061	009	2026-27	IOT for Electrical Engineering	Multidisciplinary Open Professional Electives Courses	6	3	0	0	NA	3	70	30	0	0

	BE07000141	009	2027-28	Sustainable Power Generation Systems	Multidisciplinary Open Professional Electives Courses	7	3	0	0	NA	3	70	30	0	0
	BE07009011	009	2027-28	Condition Monitoring and Diagnostics	Professional Elective - V	7	3	0	2	NA	4	70	30	20	30
	BE07009021	009	2027-28	Industrial Process Control and Automation	Professional Elective - V	7	3	0	2	NA	4	70	30	20	30
	BE07009031	009	2027-28	Advanced Electrical Machines	Professional Elective - VI	7	3	0	2	NA	4	70	30	20	30
	BE07009041	009	2027-28	Hybrid & Electric Vehicle	Professional Elective - VI	7	3	0	2	NA	4	70	30	20	30
	BE07009051	009	2027-28	Electrical Safety	Multidisciplinary Open Professional Electives Courses	7	3	0	0	NA	3	70	30	0	0
	noc25-ee43	09	01-01-2025	Integrated Circuits and Applications	PEC-02(MOOC)	5	4	0	0	NA	3	100	0	0	0
	noc25-ee68	09	01-01-2025	Principles of Communication Systems - I	PEC-01 (MOOC)	5	4	0	0	NA	3	100	0	0	0
	noc25-ge24	09	01-01-2025	Non-conventional energy Resources	MOPEC 02(MOOC)	5	3	0	0	NA	2	100	0	0	0
	noc25-ee42	09	01-01-2025	Industrial Automation and Control	PEC-03 (MOOC)	6	4	0	0	NA	3	100	0	0	0
	noc25-ee74	09	01-01-2025	Semiconductor device modeling and Simulation	PEC-04(MOOC)	6	4	0	0	NA	3	100	0	0	0
	noc25-ee76	09	01-01-2025	Sensors and Actuators	MOPEC-03 (MOOC)	6	3	0	0	NA	2	100	0	0	0
	noc25-ee14	09	01-01-2025	Computer-Aided Design of Electrical Machines	PEC-06(MOOC)	7	4	0	0	NA	3	100	0	0	0
	noc25-ee79	09	01-01-2025	Smart Grid: Basics to Advanced Technologies	PEC-05(MOOC)	7	4	0	0	NA	3	100	0	0	0
	noc25-ge10	09	01-01-2025	Engineering Statistics	MOPEC- 04(MOOC)	7	3	0	3	NA	2	100	0	0	0