Bachelor of Engineering
Program in Electrical Engineering
(Revised B.E.2024)

Year 1 – Semester 1

Course	Title	Credit
ENGL0001	English in the Digital World	3
MATH0101	Elementary Calculus	3
CHEM0120	Chemistry	3
CHEM0190	Chemistry Laboratory	1
PHYS0110	Physics I	3
PHYS0190	Physics Laboratory	1
	Total	14

Year 1 – Semester 2

Course	Title	Credit
MATH0102	Multivariable Calculus	3
PHYS0111	Physics II	3
ENCC0007	Scientific Laboratory	1
ENCC0008	Engineering Innovation and Design	3
MECH0110	Engineering Mechanics	3
MECH0105	Fundamental Engineering Drafting	3
	Total	16

Year 2 – Semester 1

Course	Title	Credit
MATH0201	Linear Algebra and Differential Equations	3
SCIE0103	Earth and Space	3
STAT0115	Statistics for Problem Solving	3
MATS0310	Engineering Materials	3
EECC0232	Fundamental Electrical Engineering	3
EECC0201	Basic Digital and Embedded System Design	3
EETE0201	Communications and Electromagnetics Applications	3
	Total	21

Year 2 – Semester 2

Course	Title	Credit
MATH0203	Discrete Mathematics	3
ENGL0002	English for STEM Education	3
ENCC0201	Computer Programming	3
EETE0233	Electronic Devices and Circuits	3
EEPW0201	AC Circuit Analysis	3
EECI0315	Electrical Instruments and Measurements	3
EECC0291	Electrical Engineering Laboratory	1
	Total	19

Year 3 – Semester 1

Course	Title	Credit
ENGL0003	English for Engineering and Technology	3
MECH0225	Introduction to Thermal-Fluid Sciences	3
EEPW0210	Electrical Machines	3
EETE0380	Data Communication and Network	3
EECI0310	Automatic Control Systems	3
EECC0202	AI and Data Science	3
EECC0293	Energy Laboratory	1
	Total	19

Year 3 – Semester 2

Course	Title	Credit
EECI0324	PLC/SCADA for Automatic Control Systems	3
EEPW0301	Electrical Schematics and Safety Standards	3
EEPW0310	Electrical Machines Application	3
EEPW0381	Power Electronics	3
EEXXxxxx	Electrical Engineering Elective	3
EEXXxxxx	Electrical Engineering Elective	3
	Total	18

Year 3 – Semester Summer

Course	Title	Credit
INDT0390	Industrial Internship	0(240 hrs.)
	Total	0

Year 4 – Semester 1

Course	Title	Credit
EEXX0490	Electrical Engineering Project I	2
EEXXxxxx	Electrical Engineering Elective	3
EEXXxxxx	Electrical Engineering Elective	3
EEXXxxxx	Electrical Engineering Elective	3
XXXXxxxx	Free Elective	3
XXXXxxxx	Free Elective	3
	Total	17

Year 4 – Semester 2

Course	Title	Credit
EEXX0491	Electrical Engineering Project II	2
ENGL0004	Business English for the Workplace	3
ENCC0006	Ethics for Engineers	1
EEXXxxxx	Electrical Engineering Elective	3
EEXXxxxx	Electrical Engineering Elective	3
EEXXxxxx	Electrical Engineering Elective	3
	Total	15