

BRANCH III: DIPLOMA IN ELECTRICAL AND ELECTRONICS ENGINEERING

Course Code	Course Title	Hours/Week			Credits	Maximum Marks		
		Lecture	Tutorial	Practical		CA	FE	Total
SEMESTER 1								
THEORY								
X21101	ENGINEERING MATHEMATICS -I	4	1	-	5	25	75	100
X21102	PHYSICS	4	1	-	5	25	75	100
X21103	CHEMISTRY	4	-	-	4	25	75	100
X21104	ENGLISH	4	-	-	4	25	75	100
E21105	BASIC ENGINEERING GRAPHICS	2	-	3	3.5	25	75	100
PRACTICALS								
X21151	PHYSICS LABORATORY	-	-	2	1	25	75	100
X21152	CHEMISTRY LABORATORY	-	-	2	1	25	75	100
E21153	FITTING, SHEET METAL & WIRING WORKSHOP	-	-	3	1.5	25	75	100
E21154	INPLANT TRAINING	-	-	3	1.5	-	-	GRADE
X21155	PHYSICAL EDUCATION -I	-	-	2	1	-	-	GRADE
	TOTAL	18	2	15	27.5	200	600	800
SEMESTER 2								
THEORY								
X21201	ENGINEERING MATHEMATICS -II	4	1	-	5	25	75	100
X21202	CALCULUS AND ITS APPLICATIONS	4	1	-	5	25	75	100
E21203	APPLIED PHYSICS	4	-	-	4	25	75	100
E21204	CHEMISTRY OF ELECTRONIC MATERIALS	4	-	-	4	25	75	100
E21205	C PROGRAMMING	3	-	2	4	25	75	100
PRACTICALS								
E21251	APPLIED PHYSICS LABORATORY	-	-	2	1	25	75	100
E21252	ENGINEERING CHEMISTRY LABORATORY	-	-	2	1	25	75	100
E21253	OFFICE TOOLS AND PYTHON PROGRAMMING	1	-	2	2	25	75	100
E21254	COMMUNICATIVE ENGLISH LABORATORY	1	-	2	2	25	75	100
X21255	PHYSICAL EDUCATION- II	-	-	2	1	-	-	GRADE
	TOTAL	21	2	12	29	225	675	900
SEMESTER 3								
THEORY								
E21301	STATISTICS AND PROBABILITY MODELS	4	1	-	5	25	75	100
E21302	ELECTRIC CIRCUITS	4	1	-	5	25	75	100
E21303	DC MACHINES AND TRANSFORMER	4	-	-	4	25	75	100
E21304	ANALOG ELECTRONICS	4	-	-	4	25	75	100
PRACTICALS								
E21351	WIRING AND WINDING LABORATORY	-	-	3	1.5	25	75	100
E21352	DC MACHINES AND TRANSFORMER LABORATORY	-	-	3	1.5	25	75	100
E21353	ANALOG ELECTRONICS LABORATORY	-	-	3	1.5	25	75	100
E21354	PCB LABORATORY	2	-	3	3.5	25	75	100
E21355	TECHNICAL COMMUNICATION LABORATORY	1	-	2	2	25	75	100
	TOTAL	19	2	14	28	225	675	900

Legend: **CA**–Continuous Assessment; **FE**–Final Examination;

Course Code	Course Title	Hours/Week			Credits	Maximum Marks		
		Lecture	Tutorial	Practical		CA	FE	Total
SEMESTER 4								
THEORY								
E21401	BASICS OF MECHANICAL ENGINEERING	4	1	-	5	25	75	100
E21402	MEASUREMENTS AND INSTRUMENTATION	4	1	-	5	25	75	100
E21403	AC MACHINES	4	1	-	5	25	75	100
E21404	DIGITAL ELECTRONICS	4	1	-	5	25	75	100
PRACTICALS								
E21451	MACHINE SHOP TECHNOLOGY LABORATORY	-	-	3	1.5	25	75	100
E21452	MEASUREMENTS AND INSTRUMENTATION LABORATORY	-	-	3	1.5	25	75	100
E21453	AC MACHINES LABORATORY	-	-	3	1.5	25	75	100
E21454	DIGITAL ELECTRONICS LABORATORY	-	-	3	1.5	25	75	100
E21455	CIRCUIT SIMULATION LABORATORY	-	-	3	1.5	25	75	100
E21456	INTERNSHIP [#]	-	-	-	3	-	-	GRADE
	TOTAL	16	4	15	30.5	225	675	900
SEMESTER 5								
THEORY								
E21501	POWER SYSTEMS	4	1	-	5	25	75	100
E21502	MICROCONTROLLERS	4	1	-	5	25	75	100
E21Exx	ELECTIVE THEORY -I	4	1	-	5	25	75	100
PRACTICALS								
E21551	ESTIMATING & COSTING LABORATORY	2	-	3	3.5	25	75	100
E21552	MICROCONTROLLER LABORATORY	-	-	3	1.5	25	75	100
E21553	TROUBLESHOOTING LABORATORY	-	-	3	1.5	25	75	100
E21554	SMART SENSORS AND IoT LABORATORY	-	-	3	1.5	25	75	100
E21555	MINI PROJECT AND ENTREPRENEURSHIP	3	-	3	4	25	75	100
	TOTAL	17	3	15	27	200	600	800
SEMESTER 6								
THEORY								
E21601	POWER ELECTRONICS	4	1	-	5	25	75	100
E21602	CONTROL OF ELECTRICAL MACHINES	4	-	-	4	25	75	100
E21Exx	ELECTIVE THEORY -II	4	1	-	5	25	75	100
PRACTICALS								
E21651	POWER ELECTRONICS LABORATORY	-	-	3	1.5	25	75	100
E21652	CONTROL OF ELECTRICAL MACHINES LABORATORY	-	-	3	1.5	25	75	100
E21653	MATLAB AND SIMULINK LABORATORY	-	-	3	1.5	25	75	100
E21654	VIRTUAL INSTRUMENTATION LABORATORY	-	-	3	1.5	25	75	100
E21655	PROJECT WORK AND VIVA VOCE	-	-	9	4	25	75	100
	TOTAL	12	2	21	24	200	600	800

ELECTIVE COURSES (Two to be opted)

Course Code	Course Title	Hours/Week			Credits	Maximum Marks		
		Lecture	Tutorial	Practical		CE	FE	Total
THEORY								
E21E01	DISTRIBUTION AND UTILISATION	4	1	-	5	25	75	100
E21E02	NON-CONVENTIONAL ENERGY SOURCES	4	1	-	5	25	75	100
E21E03	SPECIAL ELECTRICAL MACHINES	4	1	-	5	25	75	100
E21E04	SMART SENSORS AND IoT	4	1	-	5	25	75	100
E21E05	EMBEDDED SYSTEMS AND RTOS	4	1	-	5	25	75	100

Legend: **CA**–Continuous Assessment; **FE**–Final Examination;
[#] -Internship will be arranged for 4 weeks during the vacation at the end of 4th semester