

BRANCH XI: DIPLOMA IN ELECTRONICS AND COMMUNICATION 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
G21105	PROBLEM SOLVING AND C PROGRAMMING	4	1	-	5	25	75	100
PRACTICALS								
X21151	PHYSICS LABORATORY	-	-	2	1	25	75	100
X21152	CHEMISTRY LABORATORY	-	-	2	1	25	75	100
G21153	PROBLEM SOLVING AND C PROGRAMMING LABORATORY	-	-	3	1.5	25	75	100
G21154	INPLANT TRAINING	-	-	3	1.5	-	-	GRADE
X21155	PHYSICAL EDUCATION -I	-	-	2	1	-	-	GRADE
	TOTAL	20	3	12	29	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
G21203	APPLIED PHYSICS	4	-	-	4	25	75	100
G21204	CHEMISTRY OF ELECTRONIC MATERIALS	4	-	-	4	25	75	100
G21205	BASIC ENGINEERING GRAPHICS	2	-	3	3.5	25	75	100
PRACTICALS								
G21251	APPLIED PHYSICS LABORATORY	-	-	2	1	25	75	100
G21252	ENGINEERING CHEMISTRY LABORATORY	-	-	2	1	25	75	100
G21253	PROBLEM SOLVING USING PYTHON LABORATORY	1	-	2	2	25	75	100
G21254	COMMUNICATIVE ENGLISH LABORATORY	1	-	2	2	25	75	100
X21255	PHYSICAL EDUCATION -II	-	-	2	1	-	-	GRAD E
	TOTAL	20	2	13	28.5	225	675	900
SEMESTER 3								
THEORY								
G21301	STATISTICS AND PROBABILITYMODELS	4	1	-	5	25	75	100
G21302	ELECTRICAL CIRCUITS AND MACHINES	4	1	-	5	25	75	100
G21303	ELECTRONIC DEVICES AND CIRCUITS	4	1	-	5	25	75	100
G21304	DIGITAL CIRCUITS	4	1	-	5	25	75	100
PRACTICALS								
G21351	ELECTRICAL CIRCUITS AND MACHINES LABORATORY	-	-	3	1.5	25	75	100
G21352	ELECTRONIC DEVICES AND CIRCUITS LABORATORY	-	-	3	1.5	25	75	100
G21353	DIGITAL CIRCUITS LABORATORY	-	-	3	1.5	25	75	100
G21354	PCB ASSEMBLING AND TESTING LABORATORY	-	-	3	1.5	25	75	100
G21355	TECHNICAL COMMUNICATION LABORATORY	1	-	2	2	25	75	100
	TOTAL	17	4	14	28	225	675	900

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

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SEMESTER 4								
THEORY								
G21401	MEASURING INSTRUMENTS	4	-	-	4	25	75	100
G21402	LINEAR INTEGRATED CIRCUITS	4	1	-	5	25	75	100
G21403	PRINCIPLES OF COMMUNICATION ENGINEERING	4	1	-	5	25	75	100
G21404	MICROCONTROLLER AND INTERFACING	4	1	-	5	25	75	100
PRACTICALS								
G21451	MEASURING INSTRUMENTS LABORATORY	-	-	3	1.5	25	75	100
G21452	LINEAR INTEGRATED CIRCUITS LABORATORY	-	-	3	1.5	25	75	100
G21453	COMMUNICATION ENGINEERING LABORATORY	-	-	3	1.5	25	75	100
G21454	MICROCONTROLLER AND INTERFACING LABORATORY	-	-	3	1.5	25	75	100
G21455	VLSI LABORATORY	1	-	3	2.5	25	75	100
G21456	INTERNSHIP [#]	-	-	-	3	-	-	GRADE
	TOTAL	17	3	15	30.5	225	675	900
SEMESTER 5								
THEORY								
G21501	ADVANCED COMMUNICATION SYSTEMS	4	1	-	5	25	75	100
G21502	EMBEDDED SYSTEMS	4	1	-	5	25	75	100
G21Exx	ELECTIVE THEORY- I	4	1	-	5	25	75	100
PRACTICALS								
G21551	ADVANCED COMMUNICATION SYSTEMS LABORATORY	-	-	3	1.5	25	75	100
G21552	EMBEDDED SYSTEMS LABORATORY	-	-	3	1.5	25	75	100
G21553	AUDIO PRODUCTION LABORATORY	2	-	3	3.5	25	75	100
G21554	INDUSTRIAL ELECTRONICS AND AUTOMATION LABORATORY	-	-	3	1.5	25	75	100
G21555	MINI PROJECT AND ENTREPRENEURSHIP	3	-	3	4	25	75	100
	TOTAL	17	3	15	27	200	600	800
SEMESTER 6								
THEORY								
G21601	MOBILE AND WIRELESS COMMUNICATION	4	-	-	4	25	75	100
G21602	DATA COMMUNICATION AND IoT	4	-	-	4	25	75	100
G21Exx	ELECTIVE THEORY- II	4	1	-	5	25	75	100
PRACTICALS								
G21651	MOBILE AND WIRELESS COMMUNICATION LABORATORY	-	-	3	1.5	25	75	100
G21652	COMPUTER COMMUNICATION NETWORKS LABORATORY	-	-	3	1.5	25	75	100
G21653	CONSUMER ELECTRONICS LABORATORY	1	-	3	2.5	25	75	100
G21654	IoT PROGRAMMING LABORATORY	-	-	3	1.5	25	75	100
G21655	PROJECT WORK AND VIVA VOCE	-	-	9	4	25	75	100
	TOTAL	13	1	21	24	200	600	800

ELECTIVE COURSES (Two to be opted)

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		Lecture	Tutorial	Practical		CE	FE	Total
THEORY								
G21E01	INDUSTRIAL ELECTRONICS AND AUTOMATION	4	1	-	5	25	75	100
G21E02	VIRTUAL INSTRUMENTATION USING LabVIEW	3	2	-	5	25	75	100
G21E03	FUNDAMENTALS OF SIGNAL PROCESSING	4	1	-	5	25	75	100
G21E04	BIOMEDICAL INSTRUMENTATION	4	1	-	5	25	75	100
G21E05	PERSONAL COMPUTER SYSTEMS	4	1	-	5	25	75	100
G21E06	ELECTRONIC EQUIPMENT MAINTENANCE	4	1	-	5	25	75	100
G21E07	ELECTRONICS MANUFACTURING TECHNOLOGY	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.