

BRANCH VIII: DIPLOMA IN COMPUTER NETWORKING

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
C21105	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
C21153	PROBLEM SOLVING AND C PROGRAMMING LABORATORY	-	-	3	1.5	25	75	100
C21154	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
C21203	APPLIED PHYSICS	4	-	-	4	25	75	100
C21204	CHEMISTRY OF ELECTRONIC MATERIALS	4	-	-	4	25	75	100
C21205	BASIC ENGINEERING GRAPHICS	2	-	3	3.5	25	75	100
PRACTICALS								
C21251	APPLIED PHYSICS LABORATORY	-	-	2	1	25	75	100
C21252	ENGINEERING CHEMISTRY LABORATORY	-	-	2	1	25	75	100
C21253	COMPUTER GRAPHICS AND ANIMATION LABORATORY	-	-	3	1.5	25	75	100
C21254	COMMUNICATIVE ENGLISH LABORATORY	1	-	2	2	25	75	100
X21255	PHYSICAL EDUCATION -II	-	-	2	1	-	-	GRADE
	TOTAL	19	2	14	28	225	675	900
SEMESTER 3								
THEORY								
C21301	STATISTICS AND PROBABILITY MODELS	4	1	-	5	25	75	100
C21302	PRINCIPLES OF DIGITAL ELECTRONICS	4	1	-	5	25	75	100
C21303	DATA COMMUNICATION AND NETWORKS	4	-	-	4	25	75	100
C21304	DATA STRUCTURES	4	1	-	5	25	75	100
PRACTICALS								
C21351	PRINCIPLES OF DIGITAL ELECTRONICS LABORATORY	-	-	3	1.5	25	75	100
C21352	DATA COMMUNICATION AND NETWORKS LABORATORY	-	-	3	1.5	25	75	100
C21353	DATA STRUCTURES LABORATORY	-	-	3	1.5	25	75	100
C21354	COMPUTER HARDWARE AND TROUBLESHOOTING LABORATORY	2	-	2	3	25	75	100
C21355	TECHNICAL COMMUNICATION LABORATORY	1	-	2	2	25	75	100
	TOTAL	19	3	13	28.5	225	675	900

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

Course Code	Course Title	Hours/Week			Credits	Maximum Marks		
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SEMESTER 4								
THEORY								
C21401	TCP/IP NETWORKING	4	1	-	5	25	75	100
C21402	OPERATING SYSTEMS	4	-	-	4	25	75	100
C21403	DATABASE SYSTEMS	4	-	-	4	25	75	100
C21404	MICROPROCESSOR AND MICROCONTROLLER	4	-	-	4	25	75	100
PRACTICALS								
C21451	TCP/IP NETWORKING LABORATORY	-	-	3	1.5	25	75	100
C21452	DATABASE SYSTEMS LABORATORY	-	-	3	1.5	25	75	100
C21453	MICROPROCESSOR AND MICROCONTROLLER LABORATORY	-	-	3	1.5	25	75	100
C21454	PROGRAMMING PRACTICES USING PYTHON	2	-	3	3.5	25	75	100
C21455	ADVANCED INTERNET PROGRAMMING LABORATORY	2	-	2	3	25	75	100
C21456	INTERNSHIP [#]	-	-	-	3	-	-	GRADE
	TOTAL	20	1	14	31	225	675	900
SEMESTER 5								
THEORY								
C21501	WIDE AREA NETWORKS	4	-	-	4	25	75	100
C21502	JAVA PROGRAMMING	4	-	-	4	25	75	100
C21Exx	ELECTIVE THEORY- I	4	1	-	5	25	75	100
PRACTICALS								
C21551	ENTERPRISE NETWORKING AND AUTOMATION LABORATORY	-	-	3	1.5	25	75	100
C21552	JAVA PROGRAMMING LABORATORY	-	-	3	1.5	25	75	100
C21553	ADVANCED ROUTING LABORATORY	2	-	3	3.5	25	75	100
C21554	DIGITAL ASSET MANAGEMENT LABORATORY	2	-	3	3.5	25	75	100
C21555	MINI PROJECT AND ENTREPRENEURSHIP	3	-	3	4	25	75	100
	TOTAL	19	1	15	27	200	600	800
SEMESTER 6								
THEORY								
C21601	WIRELESS NETWORKS	4	-	-	4	25	75	100
C21602	NETWORK SECURITY	4	-	-	4	25	75	100
C21Exx	ELECTIVE THEORY- II	4	1	-	5	25	75	100
PRACTICALS								
C21651	WIRELESS NETWORKS LABORATORY	-	-	3	1.5	25	75	100
C21652	ETHICAL HACKING AND NETWORK DEFENSE LABORATORY	-	-	3	1.5	25	75	100
C21653	MOBILE APPLICATION DEVELOPMENT LABORATORY	1	-	3	2.5	25	75	100
C21654	LINUX ADMINISTRATION LABORATORY	1	-	2	2	25	75	100
C21655	PROJECT WORK AND VIVA VOCE	-	-	9	4	25	75	100
	TOTAL	14	1	20	24.5	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								
C21E01	CLOUD COMPUTING	4	1	-	5	25	75	100
C21E02	INTERNET OF THINGS	3	2	-	5	25	75	100
C21E03	ARTIFICIAL INTELLIGENCE	4	1	-	5	25	75	100
C21E04	BIG DATA FRAMEWORK	4	1	-	5	25	75	100
C21E05	BLOCKCHAIN AND ITS APPLICATIONS	4	1	-	5	25	75	100
C21E06	BIOMETRIC SYSTEMS	4	1	-	5	25	75	100
C21E07	VIRTUAL COMPUTING	4	1	-	5	25	75	100
C21E08	AUGMENTED REALITY AND VIRTUAL REALITY	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.