

BRANCH IX: DIPLOMA IN COMPUTER 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
Z21105	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
Z21153	PROBLEM SOLVING AND C PROGRAMMING LABORATORY	-	-	3	1.5	25	75	100
Z21154	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
Z21203	APPLIED PHYSICS	4	-	-	4	25	75	100
Z21204	CHEMISTRY OF ELECTRONIC MATERIALS	4	-	-	4	25	75	100
Z21205	BASIC ENGINEERING GRAPHICS	2	-	3	3.5	25	75	100
PRACTICALS								
Z21251	APPLIED PHYSICS LABORATORY	-	-	2	1	25	75	100
Z21252	ENGINEERING CHEMISTRY LABORATORY	-	-	2	1	25	75	100
Z21253	PC HARDWARE AND PERIPHERALS LABORATORY	-	-	3	2	25	75	100
Z21254	MULTIMEDIA LABORATORY	-	-	3	1.5	25	75	100
X21255	PHYSICAL EDUCATION -II	-	-	2	1	-	-	GRADE
	TOTAL	18	2	15	28	225	675	900
SEMESTER 3								
THEORY								
Z21301	STATISTICS AND PROBABILITY MODELS	4	1	-	5	25	75	100
Z21302	DIGITAL ELECTRONICS	4	-	-	4	25	75	100
Z21303	RELATIONAL DATABASE MANAGEMENT SYSTEM	4	-	-	4	25	75	100
Z21304	DATA STRUCTURES	4	1	-	5	25	75	100
PRACTICALS								
Z21351	DIGITAL ELECTRONICS LABORATORY	-	-	3	1.5	25	75	100
Z21352	RELATIONAL DATABASE MANAGEMENT SYSTEM LABORATORY	-	-	3	1.5	25	75	100
Z21353	DATA STRUCTURES LABORATORY	-	-	3	1.5	25	75	100
Z21354	PYTHON PROGRAMMING LABORATORY	2	-	3	3.5	25	75	100
Z21355	COMMUNICATIVE ENGLISH LABORATORY	1	-	2	2	25	75	100
	TOTAL	19	2	14	28	225	675	900

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

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SEMESTER 4								
THEORY								
Z21401	JAVA PROGRAMMING	4	1	-	5	25	75	100
Z21402	OPERATING SYSTEMS	4	1	-	5	25	75	100
Z21403	SOFTWARE ENGINEERING	4	1	-	5	25	75	100
Z21404	EMBEDDED SYSTEM AND INTERNET OF THINGS	4	1	-	5	25	75	100
PRACTICALS								
Z21451	JAVA PROGRAMMING LABORATORY	-	-	3	1.5	25	75	100
Z21452	SOFTWARE PRODUCT DESIGN AND DEVELOPMENT LABORATORY	-	-	3	1.5	25	75	100
Z21453	LINUX SYSTEM ADMINISTRATION LABORATORY	-	-	3	1.5	25	75	100
Z21454	INTERNET OF THINGS LABORATORY	-	-	3	1.5	25	75	100
Z21455	TECHNICAL COMMUNICATION LABORATORY	1	-	2	2	25	75	100
Z21456	INTERNSHIP [#]	-	-	-	3	-	-	GRADE
	TOTAL	17	4	14	31	225	675	900
SEMESTER 5								
THEORY								
Z21501	COMPUTER NETWORKS	4	1	-	5	25	75	100
Z21502	INFORMATION SECURITY	4	1	-	5	25	75	100
Z21Exx	ELECTIVE THEORY -I	4	1	-	5	25	75	100
PRACTICALS								
Z21551	COMPUTER NETWORKS LABORATORY	-	-	3	1.5	25	75	100
Z21552	ETHICAL HACKING AND PENETRATION TESTING LABORATORY	-	-	3	1.5	25	75	100
Z21553	WEB TECHNOLOGY LABORATORY	2	-	3	3.5	25	75	100
Z21554	MOBILE APPLICATION DEVELOPMENT LABORATORY	-	-	3	1.5	25	75	100
Z21555	MINI PROJECT AND ENTREPRENEURSHIP	3	-	3	4	25	75	100
	TOTAL	17	3	15	27	200	600	800
SEMESTER 6								
THEORY								
Z21601	CLOUD COMPUTING CONCEPTS	4	-	-	4	25	75	100
Z21602	DATA ANALYTICS	4	-	-	4	25	75	100
Z21Exx	ELECTIVE THEORY-II	4	1	-	5	25	75	100
PRACTICALS								
Z21651	CLOUD COMPUTING LABORATORY	-	-	3	1.5	25	75	100
Z21652	DATA ANALYTICS LABORATORY	-	-	3	1.5	25	75	100
Z21653	CONTENT MANAGEMENT SYSTEM LABORATORY	1	-	3	2.5	25	75	100
Z21654	SERVER SYSTEM ADMINISTRATION LABORATORY	-	-	3	1.5	25	75	100
Z21655	PROJECT WORK AND VIVA VOCE	-	-	9	4	25	75	100
	TOTAL	13	1	21	24	200	600	800

ELECTIVE COURSES (Two to be opted)

Course Code	Course Title	Hours/Week			Credits	Maximum Marks		
		Lecture	Tutorial	Practical		CA	FE	Total
THEORY								
Z21E01	BLOCK CHAIN TECHNOLOGY	4	1	-	5	25	75	100
Z21E02	USER INTERFACE DESIGN	4	1	-	5	25	75	100
Z21E03	INFORMATION STORAGE MANAGEMENT	4	1	-	5	25	75	100
Z21E04	DEEP LEARNING	4	1	-	5	25	75	100
Z21E05	CYBER SECURITY	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.