



DMI COLLEGE OF ENGINEERING, CHENNAI
(AN AUTONOMOUS INSTITUTION)
REGULATIONS 2024
M. E. COMPUTER SCIENCE AND ENGINEERING
CHOICE BASED CREDIT SYSTEM
CURRICULA FOR SEMESTERS I TO IV
SEMESTER I

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	MA1112	Applied Probability and Statistics for Computer Science Engineers	BS	3	1	0	4	4
2.	RM1101	Research Methodology and IPR	RM	2	0	0	2	2
3.	CP1101	Advanced Data Structures and Algorithms	PC	3	0	0	3	3
4.	CP1102	Database Practices	PC	3	0	2	5	4
5.	CP1103	Network Technologies	PC	3	0	0	3	3
6.	CP1104	Principles of Programming Languages	PC	3	0	0	3	3
7.		Audit Course – I	AC	2	0	0	2	0
PRACTICALS								
8.	CP1105	Advanced Data Structures and Algorithms Laboratory	PC	0	0	4	4	2
TOTAL				19	1	6	26	21

SEMESTER II

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	CP1151	Internet of Things	PC	3	0	2	5	4
2.	CP1152	Multicore Architecture and Programming	PC	3	0	2	5	4
3.	CP1153	Machine Learning	PC	3	0	2	5	4
4.	CP1154	Advanced Software Engineering	PC	3	0	0	3	3
5.		Professional Elective I	PE	3	0	0	3	3
6.		Professional Elective II	PE	3	0	0	3	3
7.		Audit Course – II	AC	2	0	0	2	0
PRACTICALS								
8.	CP1155	Term Paper Writing and seminar	EEC	0	0	2	2	1
9.	CP1156	Software Engineering Laboratory	PC	0	0	2	2	1
TOTAL				20	0	10	30	23

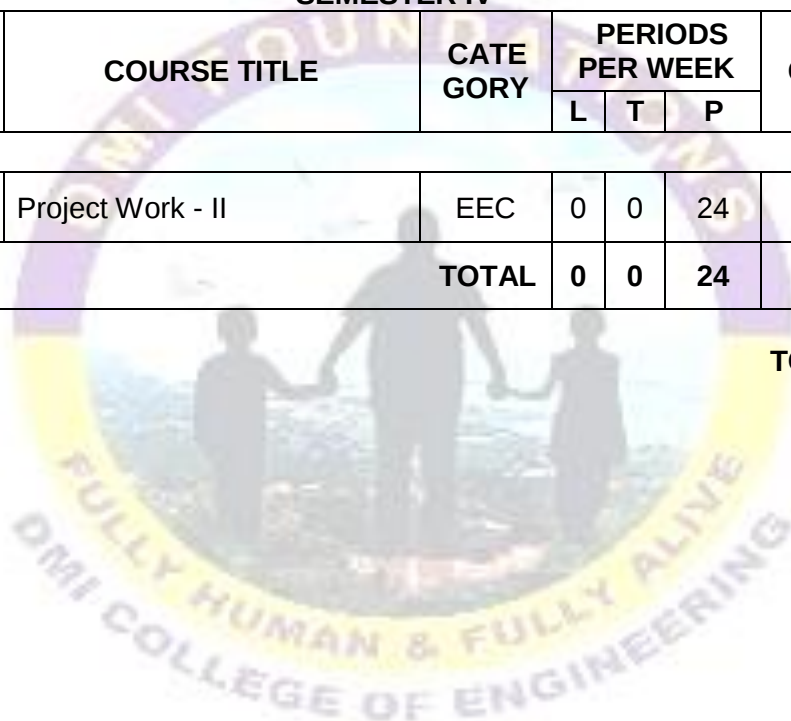
SEMESTER III

SEMESTER III								
S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	CP1201	Security Practices	PC	3	0	0	3	3
2.		Professional Elective III	PE	3	0	0	3	3
3.		Professional Elective IV	PE	3	0	2	5	4
4.		Open Elective	OE	3	0	0	3	3
PRACTICALS								
5.	CP1202	Project Work - I	EEC	0	0	12	12	6
TOTAL				12	0	14	26	19

SEMESTER IV

SEMESTER IV								
S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
PRACTICALS								
1.	CP1251	Project Work - II	EEC	0	0	24	24	12
TOTAL				0	0	24	24	12

TOTAL CREDITS: 75



PROFESSIONAL ELECTIVES

SEMESTER II, ELECTIVE I

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	CP1911	Human Computer Interaction	PE	3	0	0	3	3
2.	CP1912	Cloud Computing Technologies	PE	3	0	0	3	3
3.	CP1913	Foundations of Data Science	PE	3	0	0	3	3
4.	CP1914	Wireless Communications	PE	3	0	0	3	3
5.	CP1915	Agile Methodologies	PE	3	0	0	3	3
6.	CP1916	Performance Analysis of Computer Systems	PE	3	0	0	3	3
7.	CP1917	Advanced Operating System	PE	3	0	0	3	3
8.	CP1918	Digital Image Processing	PE	3	0	0	3	3

SEMESTER II, ELECTIVE II

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	CP1921	High Performance Computing for Big Data	PE	3	0	0	3	3
2.	CP1922	Information Retrieval Techniques	PE	3	0	0	3	3
3.	CP1923	Software Quality Assurance	PE	3	0	0	3	3
4.	CP1924	Autonomous Systems	PE	3	0	0	3	3
5.	CP1925	Web Analytics	PE	3	0	0	3	3
6.	CP1926	Cognitive Computing	PE	3	0	0	3	3
7.	CP1927	Quantum Computing	PE	3	0	0	3	3
8.	CP1928	Big Data Mining and Analytics	PE	3	0	0	3	3

SEMESTER III, ELECTIVE III

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	CP1931	Mobile and Pervasive Computing	PE	3	0	0	3	3
2.	CP1932	Web Services and API Design	PE	3	0	0	3	3
3.	CP1933	Data Visualization Techniques	PE	3	0	0	3	3
4.	CP1934	Compiler Optimization Techniques	PE	3	0	0	3	3
5.	CP1935	Formal Models of Software Systems	PE	3	0	0	3	3
6.	CP1936	Robotics	PE	3	0	0	3	3
7.	CP1937	Natural Language Processing	PE	3	0	0	3	3
8.	CP1938	GPU Computing	PE	3	0	0	3	3

SEMESTER III, ELECTIVE IV

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	CP1941	Devops and Microservices	PE	3	0	2	5	4
2.	CP1942	Mobile Application Development	PE	3	0	2	5	4
3.	CP1943	Deep Learning	PE	3	0	2	5	4
4.	CP1944	Blockchain Technologies	PE	3	0	2	5	4
5.	CP1945	Embedded Software Development	PE	3	0	2	5	4
6.	CP1946	Full Stack Web Application Development	PE	3	0	2	5	4
7.	CP1947	Bioinformatics	PE	3	0	2	5	4
8.	CP1948	Cyber Physical Systems	PE	3	0	2	5	4
9.	CP1949	Mixed Reality	PE	3	0	2	5	4

AUDIT COURSES (AC)

Registration for any of these courses is optional to students

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY			PERIODS PER WEEK
			L	T	P	
1.	AC1101	English for Research Paper Writing	2	0	0	0
2.	AC1102	Disaster Management	2	0	0	0
3.	AC1103	Constitution of India	2	0	0	0
4.	AC1104	நற்றமிழ் இலக்கியம்	2	0	0	0

Credit System for Autonomous Syllabus

S.No	Course Components	Credits Per Semester				Total Credits	Percentage
		I	II	III	IV		
2	BS	4				4	5.3
3	RM	2				2	2.6
4	PC	15	16	3		34	45.33
5	PE		6	7		13	17.33
6	OE			3		3	4.0
7	EEC		1	6	12	19	25.33
8	Non-Credit /(Mandatory)	√	√				
Total		21	23	19	12	75	100

