JAIDEV EDUCATION SOCIETY'S
J D COLLEGE OF ENGINEERING AND MANAGEMENT
KATOL ROAD, NAGPUR
Website: **www.jdcoem.ac.in** E-mail: **info@jdcoem.ac.in**
(An Autonomous Institute, with NAAC "A" Grade)
Affiliated to DBATU, RTMNU & MSBTE Mumbai
Department of Computer Science & Engineering
"A Place to Learn, A Chance to Grow"
Session: 2024-25

VISION	MISSION
To be recognized for excellent engineering, developing global leaders both in educational and research in the domain of computer science and wireless engineering.	1. To create self-learning environment by facilitating leadership qualities, team spirit and ethical responsibilities. 2. To improve department-industry collaboration, interaction with professional society through technical knowledge and internship program. 3. To promote research and development with current techniques through well qualified resources in the area of computer science and wireless engineering.

III   Semester Scheme

Program: B. Tech. in Computer Science & Engineering
3rd Semester Computer Science & Engineering

Sr. No.	Category of Subject	Course Code	Course Name	Teaching Scheme			Evaluation Scheme				
				L	T	P	CA	MSE	ESE	Total	Credit
1	HSMC	CS3T001	Organizational Behaviour	2	0	0	20	20	60	100	2
2	BSC	CS3T002	Linear Algebra and Transform	2	1	0	20	20	60	100	3
3	ESC	CS3T003	Programming for Problem Solving	3	0	0	20	20	60	100	3
4	HSMC	CS3T004	Universal Human Values(UHV)	2	1	0	20	20	60	100	3
5	PCC	CS3T005	Digital Electronics and Microprocessor	3	0	0	20	20	60	100	3
6	PCC	CS3T006	Data structure & Algorithms	3	0	0	20	20	60	100	3
7	PCC	CS3T007	Operating System	3	0	0	20	20	60	100	3
8	PCC	CS3L008	Digital Electronics and Microprocessor (Lab)	0	0	2	60	0	40	100	1
9	PCC	CS3L009	Data structure and Algorithms(Lab)	0	0	2	60	0	40	100	1
10	PCC	CS3L010	Web Designing (Lab)	0	0	2	60	0	40	100	1
				18	**2**	**6**	**320**	**140**	**540**	**1000**	**23**

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IV

Semester Scheme

Program: B. Tech. in Computer Science & Engineering
4th Semester Computer Science & Engineering

Sr. No.	Category of Subject	Course Code	Course Name	Teaching Scheme			Evaluation Scheme				
				L	T	P	CA	MSE	ESE	Total	Credit
1	PCC	CS4T001	Formal Language Automata Theory	2	1	0	20	20	60	100	3
2	PCC	CS4T002	Computer Architecture Organization	3	0	0	20	20	60	100	3
3	PCC	CS4T003	Java Programming	3	0	0	20	20	60	100	3
4	PCC	CS4T004	Computer Network	3	0	0	20	20	60	100	3
5	PCC	CS4T005	Database Management Systems	3	0	0	20	20	60	100	3
6	PCC	CS4T006	Numerical Methods and Discrete Mathematics	3	0	0	20	20	60	100	3
7	PCC	CS4L007	JAVA Programming (Lab)	0	0	2	60	0	40	100	1
8	PCC	CS4L008	Computer Networks(Lab)	0	0	2	60	0	40	100	1
9	PCC	CS4L009	Database Management Systems (Lab)	0	0	2	60	0	40	100	1
10	MC	CS4T010	Consumer Affairs	2	0	0	15	10	25	50	Audit
11	PROJECT	CS4P011	Field Training/ Industrial Visit	0	0	0	30	0	20	50	1
12	PCC	CS4T012	NPTEL	0	0	0	25	0	25	50	2
				19	1	6	370	130	550	1050	24

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V

Semester Scheme

Program: B. Tech. in Computer Science & Engineering
5th Semester Computer Science & Engineering

Sr. No.	Category of Subject	Course Code	Course Name	Teaching Scheme			Evaluation Scheme				Credit	Teaching Mode
				L	T	P	CA	MSE	ESE	Total		
1	ESC	CS5T001	Internet of Things	3	0	0	20	20	60	100	3	PPT, Board, Chalk,
2	PCC	CS5T002	TCP/IP	3	0	0	20	20	60	100	3	PPT, Board, Chalk,
3	PCC	CS5T003	Design and Analysis of Algorithm	2	1	0	20	20	60	100	3	PPT, Board, Chalk,
4	PCC	CS5O001	Open Elective-1	3	1	0	20	20	60	100	4	PPT, Board, Chalk,
5	PEC	CS5TE01	Elective -I	3	0	0	20	20	60	100	3	PPT, Board, Chalk,
6	ESC	CS5L004	Internet of Things (Lab)	0	0	2	60	0	40	100	1	PC, PPT
7	PCC	CS5L005	TCP/IP(Lab)	0	0	2	60	0	40	100	1	PC, PPT
8	PCC	CS5L006	Design and Analysis of Algorithm (Lab)	0	0	2	60	0	40	100	1	PC, PPT
9	PROJECT	CS5P007	Mini Project	0	0	0	25	0	25	50	1	PC
10	PROJECT	CS5P008	Field Training/ Industrial Visit	0	0	0	30	0	20	50	1	-
11	MC	CS5T009	Innovation and Entrepreneurship Development	2	0	0	15	10	25	50	Audit	PPT, Board, Chalk,
				16	2	6	350	110	490	950	21	

Open Elective-1 : OSOS (Open Source Operating System)

Elective-1

Code	Subject
CS5TE01A	Augmented Reality
CS5TE01B	Block Chain
CS5TE01C	3D Printing & Design

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VI Semester Scheme

Program: B. Tech. in Computer Science & Engineering

6th Semester Computer Science & Engineering

Sr. No.	Category of Subject	Course Code	Course Name	Teaching Scheme			Evaluation Scheme				Credit	Teaching Mode
				L	T	P	CA	MSE	ESE	Total		
1	PCC	CS6T001	Artificial Intelligence & Robotics	3	0	0	20	20	60	100	3	
2	PCC	CS6T002	Neural Networks and Machine Learning	3	0	0	20	20	60	100	3	PPT, Board, Chalk,
3	PEC	CS6TE02	Elective -II	3	0	0	20	20	60	100	3	PPT, Board, Chalk,
4	PEC	CS6TE03	Elective-III	3	0	0	20	20	60	100	3	PPT, Board, Chalk,
5	OEC	CS6O002	Open Elective-2	3	1	0	20	20	60	100	4	PPT, Board, Chalk,
6	PCC	CS6L003	Neural Networks & Machine Learning(Lab)	0	0	2	60	0	40	100	1	PPT, Board, Chalk,
7	PCC	CS6L004	Full Stack Development (Lab)	0	0	2	60	0	40	100	1	PC, PPT
8	PCC	CS6L005	Advance Java Programming (LAB)	0	0	2	60	0	40	100	1	PC, PPT
9	PROJECT	CS6P006	Mini Project	0	0	2	25	0	25	50	1	PC, PPT
10	PROJECT	CS6P007	CRT(Campus Recruitment Training)	0	0	2	50	0	0	50	1	Board, Chalk,
11	PROJECT	CS6P008	Skill Development	0	0	2	15	0	35	50	1	PC, PPT
12	MC	CS6T009	Intellectual Property Rights	2	0	0	15	10	25	50	Audit	PPT, Board, Chalk,
				17	1	12	385	110	505	1000	22	

Open Elective-1 : SE (Software Engineering)

	Elective-II			Elective-III
Code	**Subject**		**Code**	**Subject**
CS6TE02A	Cloud Computing		CS6TE03A	Brain Machine Interface & Interaction
CS6TE02B	Angular JS		CS6TE03B	Computer Forensic
CS6TE02C	Middleware Technologies		CS6TE03C	Deep Learning
CS6TE02D	Human Computing		CS6TE03D	Quantum Computing

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VII Semester Scheme

Program: B. Tech. in Computer Science & Engineering
7th Semester Computer Science & Engineering

Sr. No.	Category of Subject	Course Code	Course Name	Teaching Scheme			Evaluation Scheme				Credit	Teaching Mode
				L	T	P	CA	MSE	ESE	Total		
1	ESC	CS7T001	Data Science	3	0	0	20	20	60	100	3	PPT, Board, Chalk,
2	ESC	CS7T002	Cyber Security & Cryptography	3	0	0	20	20	60	100	3	PPT, Board, Chalk,
3	OEC	CS7O003	Open Elective -3	3	1	0	20	20	60	100	4	PPT, Board, Chalk,
4	PEC	CS7TE04	Elective-IV	3	0	0	20	20	60	100	3	PPT, Board, Chalk,
5	PEC	CS7TE05	Elective -V	3	0	0	20	20	60	100	3	PPT, Board, Chalk,
6	PCC	CS7L006	Data Science using R(Lab)	0	0	2	60	0	40	100	1	PC, PPT
7	PCC	CS7L007	Cyber Security & Cryptography (Lab)	0	0	2	60	0	40	100	1	PC, PPT
8	PROJECT	CS7P008	Project Phase I	0	0	6	50	0	50	100	3	PC, PPT
9	MC	CS7T009	Research Methodology	2	0	0	15	10	25	50	Audit	PPT, Board, Chalk,
				17	1	10	285	110	415	850	21	

Elective IV			Elective V	
Course Code	**Name of Subject**		**Course Code**	**Name of Subject**
CS7TE04A	Semantic Web		CS7TE05A	Natural Language Processsing
CS7TE04B	Big Data Analytic Technique		CS7TE05B	Advanced Computer Vision
CS7TE04C	Digital Image Processing		CS7TE05C	AI In Wireless Communication
CS7TE04D	Randomized Algorithms		CS7TE05D	Biomedical Informatics

Open Elective-3: PHP Development

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VIII Semester Scheme

Program: B. Tech. in Computer Science & Engineering

8th Semester Computer Science & Engineering

Sr. No.	Category of Subject	Course Code	Course Name	Teaching Scheme			Evaluation Scheme				Credit	Teaching Mode
				L	T	P	CA	MSE	ESE	Total		
1	PEC	CS8TE06	Elective –VI	3	0	0	20	20	60	100	3	PPT, Board, Chalk
2	OEC	CS8O004	Open Elective -4	3	1	0	20	20	60	100	4	PPT, Board, Chalk
3	PROJECT	CS8P001	Project Phase II	0	0	4	50	0	50	100	3	PPT, PC
				6	1	4	90	40	170	300	10	

Elective VI

Course Code	Name of Subject
CS7TE06A	High Performance Computer Architecture
CS7TE06B	Full Stack Development
CS7TE06C	Advanced Software Testing Methodology
CS7TE06D	Advanced Database System

Open Elective-4 : Ethical Hacking

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