

JAIDEV EDUCATION SOCIETY'S J D COLLEGE OF ENGINEERING AND MANAGEMENT



COLLEGE OF ENGINEERING AND MANAGEME
KATOL ROAD, NAGPUR
Website: www.idcoem.ac.in E-mail: info@idcoem.ac.in
(An Autonomous Institute, with NAAC "A" Grade)
Affiliated to DBATU, RTMNU & MSBTE Mumbai
Department of Information Technology
"Progress Beyond Excellence"
2023-24

To be recognized as a centre of excellence in the field of Information Technology where inquisitive minds of students are fostered, leading to skills professionals for satisfying the needs of society.

Apply knowledge of engineering fundamentals & cutting-edge technology to identify and implement innovative solutions for engineering problems and issue in society at large.

Build strong interpersonal skills and will engage in life long learning to enhance their career positions, both as team members and leaders.

 ${\bf 3}^{\rm rd} \, {\bf Semester} \, \, {\bf Information} \, \, {\bf Technology}$

Sr. No.	Category of Subject	Course Code	Course Name		Teaching Scheme			Evaluation Scheme			
				L	T/A	P	CA	MSE	ESE	Total	Credit
1	PCC	IT3T001	Data Structures through Python	3	0	0	20	20	60	100	3
2	PCC	IT3T002	Computer Networks	3	0	0	20	20	60	100	3
3	PCC	IT3T003	Operating Systems & Virtualizations	3	0	0	20	20	60	100	3
4	PCC	IT3T004	Organization Behavior	2	0	0	10	15	25	50	Audit
5	MDM	IT3M001	Discrete Mathematics & Statistical Analysis	2	0	0	20	20	60	100	2
6	OEC	IT3O001	Open Elective-1	3	0	0	20	20	60	100	3
7	EEMC	IT3E001	Entrepreneurship Development	2	0	0	20	20	60	100	2
8	VEC	IT3V001	Universal Human Values-II	2	0	0	20	20	60	100	2
9	PCC	IT3L004	Data Structures through Python Lab	0	0	2	60	-	40	100	1
10	PCC	IT3L005	Computer Networks Lab	0	0	2	60	-	40	100	1
11	PCC	IT3L006	Web Development Lab	0	0	2	60	-	40	100	1
12	CEP/FP	IT3F001	Comm. Engg. Project	0	0	4	30	-	20	50	2
				20	0	10	360	155	585	1100	23

4th Semester Information Technology

Sr. No.	Category of Subject	Course Code	Course Name		Teaching Scheme		I	Evaluatio	n Sch	eme	
				L	T	P	CA	MSE	ESE	Total	Credit
1	PCC	IT4T001	Automata Theory & Compiler Design	2	0	0	20	20	60	100	2
2	PCC	IT4T002	Analysis & Design Algorithms	3	0	0	20	20	60	100	3
3	PCC	IT4T003	Java Programming	3	0	0	20	20	60	100	3
4	MDM	IT4M002	Linear Algebra and Transform	2	0	0	20	20	60	100	2
5	OEC	IT4O001	OE-2	3	0	0	20	20	60	100	3
6	VSEC	IT4L001	Data Storage Technologies & Networking	0	0	4	60	-	40	100	2
7	AEC	IT4A001	Principle of Corporate Success	2	0	0	20	20	60	100	2
8	EEMC	IT4E001	Engineering Economics	2	0	0	20	20	60	100	2
9	VEC	IT4V001	Intellectual Property Rights	2	0	0	20	20	60	100	2
10	PCC	IT4L004	Analysis & Design Algorithms Lab	0	0	2	60	-	40	100	1
11	PCC	IT4L005	Java Programming Lab	0	0	2	60	1	40	100	1
12	PCC	IT4L006	R Programming Lab	0	0	2	60	-	40	100	1
				19	0	4	220	160	520	1200	24





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5th Semester Information Technology

Sr. No.	Category of Subject	Course Code	Course Name	Teaching Scheme		_	Ev	aluati	on Sch	eme	
	"			L	T	P	CA	MSE	ESE	Total	Credit
1	PCC	IT5T001	DBMS	2	0	0	20	20	60	100	2
2	PCC	IT5T002	Artificial Intelligence	2	0	0	20	20	60	100	2
3	PCC	IT5T003	Cyber Security & Cryptography	2	0	0	20	20	60	100	2
4	PEC	IT5E001	PEC-I	3	0	0	20	20	60	100	3
5	PEC	IT5E002	PEC-II	3	0	0	20	20	60	100	3
6	MDM	IT5M003	Digital Electrical & Electronics Components	2	0	0	20	20	60	100	2
7	MDM	IT5M004	Microprocessor & it's Application	2	0	0	20	20	60	100	2
8	OEC	IT5O003	OE-3	2	0	0	20	20	60	100	2
9	PCC	IT5L004	Artificial Intelligence Lab	0	0	2	60	-	40	100	1
10	PCC	IT5L005	DBMS Lab	0	0	2	60	1	40	100	1
11	PCC	IT5L006	Cyber Security & Cryptography Lab	0	0	2	60	-	40	100	1
12	Internship	IT5I001	Internship-I	0	0	4	60	-	40	100	2
				18	0	10	400	160	640	1200	23

6th Semester Information Technology

Sr. No.	Category of Subject	Course Code	Course Name		achii chem	ng	Ev	aluati	on Sch	eme	Credit
110.	Subject	Code		L	Т	P	CA	MSE	ESE	Total	
1	PCC	IT6T001	Machine Learning	2	0	0	20	20	60	100	2
2	PCC	IT6T002	Cloud Computing and Storage Management		0	0	20	20	60	100	2
3	PCC	IT6T003	Embedded System & IoT	2	0	0	20	20	60	100	2
4	PEC	IT6E003	PEC-III	3	0	0	20	20	60	100	3
5	PEC	IT6E004	PEC-IV	3	0	0	20	20	60	100	3
6	PEC	IT6E005	PEC-V	2	0	0	20	20	60	100	2
7	MDM	IT6M005	Adhoc Wireless Sensor Networks	2	0	0	20	20	60	100	2
8	MDM	IT6M006	Digital and Mobile Forensics	2	0	0	20	20	60	100	2
9	VSEC	IT6L002	Full Stack Development	0	0	4	60	-	40	100	2
10	PCC	IT6L004	Multimedia and Animation Lab	0	0	2	60	-	40	100	1
11	PCC	IT6L005	Machine Learning Lab	0	0	2	60	-	40	100	1
12	PCC	IT6L006	Embedded System & IoT Lab	0	0	2	60	-	40	100	1
				18	0	10	400	160	640	1200	23



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7th Semester Information Technology

Sr. No.	Category of Subject	Course Code	Course Name	Teaching Scheme			E	Credit			
110.	Subject			L	T	P	CA	MSE	ESE	Total	
1	PCC	IT7T001	Natural Language Processing	2	0	0	20	20	60	100	2
2	PCC	IT7T002	Software Testing and Automation	2	0	0	20	20	60	100	2
3	PCC	IT7T003	Data Science and Analytics	2	0	0	20	20	60	100	2
4	PEC	IT7E006	PEC-VI	3	0	0	20	20	60	100	3
5	PEC	IT7E007	PEC-VII	3	0	0	20	20	60	100	3
6	MDM	IT7M007	Human Computer Interface	2	0	0	20	20	60	100	2
7	PCC	IT7L004	Deep Learning Lab	0	0	2	60	-	40	100	1
8	PCC	IT7L005	Natural Language Processing Lab	0	0	2	60	-	40	100	1
9	PCC	IT7L006	No SQL Data Bases Lab	0	0	2	60	-	40	100	1
10	PROJECT	IT7P001	PROJECT PHASE-1	0	0	4	50	-	50	100	2
11	INTERNSHIP	IT7I002	INTERNSHIP-II	0	0	4	50	-	50	100	2
				14	0	14	400	120	580	1100	21

8th Semester Information Technology

Sr. No.	Category of Subject	Course Code	Course Name		Teaching Scheme		E				
				L	T	P	CA	MSE	ESE	Total	Credit
1	PROJECT	IT8P002	PROJECT PHASE-II	0	0	4	60	-	40	100	2
2	OJT	IT8I003	Internship-III	0	0	4	180	-	120	300	8
				0	0	8	240	0	160	400	10



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Professional Flective Courses

	Professional Elective Courses
1	Semantic Web
2	Blockchain
3	Augmented Reality/Virtual Reality
4	Computational Intelligence
5	Big Data Analytic Technique
6	Advanced Computer Vision
7	AWS Cloud Techniques
8	Quantum Computing
9	Distributed Computing
10	Advanced Database System
11	TCP/IP
12	Data Handling and Visualization
13	Cluster Computing
14	Reinforcement Learning
15	Soft Computing
16	Pattern Recognition
17	Web Security
18	Interactive Media Development
19	Scripting Languages
20	DevOps
21	Computer Vision and Robotics
22	Fuzzy Logics and Genetic Algorithms
23	Web and Social Media Analytics
24	Mobile Application Development
25	Cryptography and Network Security
26	Privacy Preserving in Data Mining
27	Salesforce
28	Mining Massive Datasets
29	Database Security
30	Ad hoc and Sensor Networks
31	Storage Area Networks
32	Unix Shell Programming
33	MERN Stack-I(MongoDB, Express, React and Node.js.)
34	MEAN Stack-II(MongoDB, Express, Angular and
	Node.js.)

Application of Physics for Engineering
Physics of Engineering materils
Probability of Random Variable
Abstract Algebra
Graph Theory
Mathematical Transforms
Empires of India
History of Indian Independence
Vedic Maths
Stress Management
Predicting Modelling & analytics

Elements of Earthquake
Metro System and Engineering
Smart City
Disaster Management
Waste Water Management
Natural Resourse Management
Energy Conservation
Ethics in IT
Ethical Hacking
E – Waste Management
Domestic Equipment Naintence
Value Engineering
Solar Technology
Industry 4.0
Fundamental of industrial Engineering

Open Elective

Principles of Management
Project Management
Consumer Behaviour
Human Resourse Management
Social Economics
Financial Management
Fundamentals of Investment
Digital Marketing
E-business
Business analytics
Cyber Law & Cyber Crime