



**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: 2023-24



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.

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



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Unit III	Research Sampling and Design: Sampling of data: Concept of sampling, Probability sampling techniques , Non probability sampling techniques , Sampling error, Research Design: Meaning, Need, Types of research design-Exploratory Research Design, components of research design and features of good research design,	7
Unit IV	Methods, Collection and Analysis of Data: Types of data, Methods of data collection- Interview Method, Mailing Method, Observation Method, Survey Method etc.; Primary and secondary sources of data, Sampling- meaning and methods, Classification and Tabulation, Graphical presentation, Application of computer in research data analysis.	8
Unit V	Presentation of Research: Citation Styles- APA, MLA etc., Research ethics and Plagiarism, Indexing of journal and research output, Report writing steps in report writing, layout of report writing, reference and bibliography.	7

Text Books	
1.	Research Methodology, Methods and Techniques by C.R Kothari, 2nd Edition.
2.	Sinha, S.C. and Dhiman, A.K., 2002. Research Methodology, Ess Ess Publications. 2 volumes. 4.
3.	The Science of Education Research, Eurasia Publishing House, New Delhi by George J. (1964),
4.	Advanced focus Group Research, Sage Publication, India Ltd, New Delhi by Fern Edward F. (2001)

Reference Books	
1.	Research Methodology in Management, Himalaya Publishing House, New Delhi by Michael V.P.
2.	Trochim, W.M.K., 2005. Research Methods: the concise knowledge base, Atomic Dog Publishing. 270p.
3.	Research Methodology, A Handbook for Beginners, By Pagadala Suganda Devi · 2017