

# B.N.M. Institute of Technology

An Autonomous Institution under VTU

## Department Information Science & Engineering

### Innovative teaching methods

Academic Year: 2024-2025

Sl. No.	Name of Faculty	Course	Sem	Innovative Method	Type of Innovation
1	Dr. Jagruthi H	Introduction to Data science using Python	V	Python for Data Science by Infosys Springboard.	Certificate Courses
				Deploying various machine learning algorithms on a dataset for predictive analysis	Project-based
		Salesforce Developer	VII	Building apps, creating custom objects	Project-based
				Introduce badges, leader boards and rewards for completing modules	Gamification
		Cloud Computing and its Application	VI	Hands-On Learning, Real-World Application	Interactive Labs in the Cloud Case Studies Flipped Classroom
		Cybersecurity	VI	Provide pre-class video lectures or reading materials on cybersecurity basics.	Flipped Classroom
2	Dr. Laxmi V	Operating System	III	Hands-on command execution and shell programming	Blended Learning and Activity based learning
		Design and Analysis of Algorithms	IV	Hands on analysis on various algorithms combining codetantra as learning platform	Blended learning
3	Dr Nandini G	Computer organisation	III	Case study on different Architectures	Seminar based
		ATC	V	JFLAP software	Activity based learning
4	Mrs Rashmi T V & Dr S Srividhya	Artificial Intelligence and Machine Learning	VI	Infosys Springboard Certification	Certificate Courses
5	Mrs Sindhu N Dr. S Srividhya	Data Structures and its Applications	III	Model Building Activity	Activity-based Learning
				Session by Final Year Students.	Role-based Learning
			VII	Gain motivation for new ideas and information.	Seminar Based Learning

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		Research Methodology and IPR		Viewing a lecture online, prior to the in-class discussion of the material	Flipped Classroom
				Deploying various machine learning algorithms on a dataset for predictive analysis	Project-based
6	Mrs Sindhu N	Python Programming & Applications	II	Session by Seniors	Activity based learning
		Privacy and security in online social media	VIII	NPTEL Certification - MOOC	Certificate Courses
7	Mrs. Kavya N L & Dr S Srividhya	Database Management System	IV	Blended learning	Activity based learning Peer to peer learning
8	Mrs. Kavya N L	Web Technology	III	Students will be taking session and help them to work on mini project using Mongo DB and SQL.	Role-based
		Software Project Management & Finance	V	Presentation of case study	Activity-based Learning
9	Mrs. Divyashree S R	Virtual and Augmented Reality	VI	Hands on using modern tools Peer to peer learning	Activity based learning Peer to peer learning
		Introduction to Data science	VI	Course based learning Practical activities	Course based learning Activity based learning
		Computer Networks	V	Course based learning Practical activities	Course based learning Activity based learning
10	Mrs. Roopashree C S	Robotic Process Automation	VI	Diploma course of Developer foundation	Certificate courses
		Object Oriented Programming using Java	III	Words definition must be given based on which word will be identified	Activity-based Learning
		Robotic Process Automation	V	Diploma courses on Introduction to Automation, PDF Automation, Build your First Automation Process in UI Path	Certificate Courses

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11	Mrs. Shreedevi S Ronihal & Dr. Saritha Chakrasali	Blockchain Technologies :Platforms and Applications	IV	Crossword & review writing	Activity based learning
		Cryptography and Information Security	VI	Students are provided with pre-recorded video lectures, allowing classroom time for discussions, problem-solving, and usage of cryptography tool.	Flipped Classroom Approach