

B.N.M. Institute of Technology

An Autonomous Institution under VTU

Department Information Science & Engineering

Innovative Teaching Methods

Academic Year: 2025-2026

| Sl.NO | Name of Faculty | Course | Sem | Innovative Method | Type of Innovation |
|-------|-------------------------------|---------------------------------|-----|---|--|
| 1 | Dr. Jagruthi H | Datascience using Python | V | Project Based Learning | Mini-projects such as customer segmentation, sentiment analysis, and predictive modeling. Tools like Jupyter Notebook, Pandas, Matplotlib, gradio and Scikit-learn are actively used |
| | | | | Certification course | "Python for Data Science" by Infosys SpringBoard. |
| | | Salesforce | VII | Project Based Learning | Real-World Salesforce projects, such as building apps, creating custom objects, or automating business processes with flows. |
| | | | | Gamification | Introduce badges, leaderboards, and rewards for completing modules or solving real-world Salesforce challenges |
| 2 | Dr. Laxmi V | Computer Networks | V | Course Based Learning | Cisco Netacad Courses on 1. Getting started with CISCO Packet tracer 2. Exploring Networking with CISCO packet tracer |
| | | Advanced Distributed System | VII | Course Based Learning | NPTEL Course |
| 3 | Dr Nandini G | Automata Theory Computation | V | Visual Learning Strategies. | "Art of Computation" Poster Presentation- Posterthon |
| | | Computer Organization | III | Collaborative learning task and Peer-to-peer learning | Case Study on Different computer Architecture. |
| 4 | Rashmi T V | Prompt Engineering | VII | Project Based Learning | Individual students developed their own chatbots for different application by use API and different prompt Engineering Strategies |
| | Dr. S. Srividhya & Rashmi T V | Data Structure and Applications | III | Activity based Learning | A group of students presented a skit on topics in DSA |

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| 5 | Sindhu N | Operating System | III | Seminar Based Learning | A smaller group of students engaging in discussions, debates, and collaborative activities under the guidance of a facilitator or instructor. |
| | Dr. S. Srividhya & Sindhu N | Research Methodology and IPR | VII | | |
| 6 | Kavya N L | Software Project Management and Finance | V | Collaborative learning task and Peer-to-peer learning | Poster Making for different case Study |
| | | Computer Graphics | V | Project Based learning | Mini Project |
| 7 | Divyashree S R | Big Data Analytics | VII | Micro Learning | Small focused units of information in the form of videos are delivered in order to understand the topic better. |
| | | | | Course Based Learning | Big Data Analytics by Infosys Springboard |
| | Dr. Saritha Chakrasali & Divyashree S R | Object Oriented Programming with Java | III | Practical Activities | Sessions are conducted for students in laboratory using Netbeans platform to create Java Application using Swings. |
| | | | | Micro Learning | Small focused units of information in the form of videos are delivered in order to understand the topic better. |
| 8 | Shreedevi S Ronihal | Web Technology | III | Project Based learning | Mini Project |
| | | Ethical Hacking | VII | Course Based Learning | NPTEL Course |