# B.N.M. Institute of Technology

**An Autonomous Institution under VTU**

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## Department: Electronics and Communication Engineering

### Details of the Innovative Teaching Methodologies Adopted by Faculty

**2025-26**

| Sl no | Name of the Faculty | Course and Course Code | Semester and Section | Innovative Method Used | Date on which the ITM was conducted |
|---|---|---|---|---|---|
| 1 | Dr. Smitha Gayathri D | Network Analysis 23ECE132 | III A | Virtual-to-Real Experiential Learning (VREL) | 23-12-2025 |
| 2 | Dr. Smitha Gayathri D | VLSI DESIGN 23ECE163 | VI A | TechQuest | 11-02-2026 |
| 3 | Dr. Vrunda Kusanur | Computer Networks 23ECE153 | VII B | Organized a Workshop on "Inside the Network: Life of a Packet & Routing Fundamentals" by Sanyukta S Pawaskar Technical Consulting Engineer, Cisco Joint-Secretary, IEEE WiE AG Bangalore Section | 25-07-2025 |
| 4 | Dr. Ashwini S Savanth | Advanced Python Programming on Raspberry Pi 24ECE136 | III A | Escape Room Debugging | 22-11-2025 |
| 5 | Dr. Ashwini S Savanth | Artificial Intelligence and Machine Learning Applications 23ECE155 | V B | Poster Presentation | 16-10-2025 |
| 6 | Dr. Ashwini S. Savanth | Cloud Computing 22ECE1815 | VIII B | Coding related to Docker and Kubernetes | 11-04-2026 |
| 7 | Dr. Priyadarshini K Desai | Analog Electronic Circuits 24ECE134 | III A | Design and Analysis of Circuit using Virtual Lab | 12-12-2025 |
| 8 | Dr. Priyadarshini K Desai | Analog and Digital Communication 24ECE145 | IV A | MOD - THEATER | 29-05-2026 |

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|---|---|---|---|---|---|
| 9 | Dr. Sujaya B L | QNX based Embedded RTOS Design 25VDE212 | 1 MTech | Hackathon | 10-02-2026 |
| 10 | Dr. Ashwini S Savanth | Digital Signal Processing 24ECE142 | IV B | Open Book Quiz | 12-03-2026 |
| 11 | Dr. Ashwini S. Savanth | Digital Signal Processing 24ECE142 | IV B | Animation to demonstrate convolution process | 25-03-2026 |
| 12 | Dr. Ashwini S. Savanth | Cloud Computing 22ECE1815 | VIII B | Coding related to Docker and Kubernetes | 11-04-2026 |
| 13 | Dr. Ashwini S. Savanth | Cloud Computing 22ECE1815 | VIII B | Flipped Classroom | 13-12-2025 |
| 14 | Dr. Lakshmi Bhaskar | AIML applications using MATLAB 24ECE155 | V A | Poster Presentation | 16-10-2025 |
| 15 | Dr. Lakshmi Bhaskar | 24ECE134 | III A | Design and analysis of circuits using Virtual lab | 02-12-2025 |
| 16 | Dr. Sunitha S V | Microwave and Antennas & 23ECE162 | VI B | Role play and Debate | 09-01-2026 |
| 17 | Dr. Sunitha S V | Cyber Security and Privacy 22ECE1731 | VII | Flipped Classroom | 18-07-2025 |
| 18 | Dr. Sunitha S V | EMW & 23ECE152 | V A | Simulation based learning | 11-09-2025 |
| 19 | Dr. Sunitha S V | SPA USING MATLAB 24ECE146 | IV A | Signal reconstruction | 22-04-2026 |
| 20 | Prof. Sarala T | Control Systems 24ECE143 | IV B | Interactive Quiz Using Quizizz Platform | 17-04-2026 |
| 21 | Prof. Sarala T | RTOS 23ECE154 | V A & B | Course Completion | 26-12-2026 |
| 22 | Prof. Sarala T | DBMS 23ECE1665 | VI A & B | Case study | 20-03-2026 |
| 23 | Dr. Manjunath Asuti | Network Analysis 24ECE132 | III B | Simulation of Electrical Networks using LT Spice simulation software | 10-10-2025 |
| 24 | Dr. Manjunath Asuti | CMOS RF Circuit Design | III M. Tech | Simulation of CMOS RF Circuits using | 11-10-2025 |

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| | | 24VDE231 | | MATLAB and Cadence Tools. | |
| 25 | Sudarshan | Embedded System Using Raspberry Pi 23ECE1564 | V | Mini Project | 14-10-2026 |
| 26 | Sudarshan | Embedded System Design 23ECE1663 | VI | Flipped Classroom | 03-06-2026 |
| 27 | Dr. Keerti Kulkarni | Digital Image Processing 23ECE151 | V | Hands-on Workshop | 17-09-2025 |
| 28 | Dr. Keerti Kulkarni | Digital Signal Processing | IV | Program Based Learning | 08-03-2026 |