

# *B.N.M. Institute of Technology*

An Autonomous Institution under VTU

## 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/<br>23ECE132                                        | III A SECTION                  | Virtual-to-Real Experiential Learning (VREL)                                                                                                                                                        | 23-12-2025                          |
| 2     | Dr. Smitha Gayathri D    | VLSI DESIGN/<br>23ECE163                                             | VI th SEMESTER/<br>A SECTION   | TechQuest                                                                                                                                                                                           | 11-02-2026                          |
| 3     | Dr. Vrunda Kusanur       | Computer Networks                                                    | VII th Semester<br>'B' Section | Organized a Workshop on "Inside the Network: Life of a Packet & Routing Fundamentals" by Sanyukta S Pawaskar<br>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 ECE A                      | Escape Room Debugging                                                                                                                                                                               | 22-11-2025                          |
| 5     | Dr. Ashwini S Savanth    | Artificial Intelligence and Machine Learning Applications (23ECE155) | V ECE B                        | Poster Presentation                                                                                                                                                                                 | 16-10-2025                          |
| 6     | Dr. Ashwini S. Savanth   | Cloud Computing (22ECE1815)                                          | VIII ECE B                     | Coding related to Docker and Kubernetes                                                                                                                                                             | 11-04-2026                          |
| 7     | Dr.Priyadarshini K Desai | 24ECE134                                                             | III rd A                       | Design and Analysis of Circuit using Virtual Lab                                                                                                                                                    | 12-12-2025                          |
| 8     | Dr.Priyadarshini K Desai | 24ECE145                                                             | 4:00 AM                        | MOD - THEATER                                                                                                                                                                                       | 29-05-2026                          |
| 9     | Dr. Sujaya B L           | QNX based Embedded RTOS Design<br>25VDE212                           | 1 Sem MTech                    | Hackathon                                                                                                                                                                                           | 10-02-2026                          |

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|-------|------------------------|-----------------------------------------|----------------------|---------------------------------------------------|-------------------------------------|
| 10    | Dr. Ashwini S Savanth  | Digital Signal Processing (24ECE142)    | IV ECE B             | Open Book Quiz                                    | 12-03-2026                          |
| 11    | Dr. Ashwini S. Savanth | Digital Signal Processing (24ECE142)    | IV ECE B             | Animation to demonstrate convolution process      | 25-03-2026                          |
| 12    | Dr. Ashwini S. Savanth | Cloud Computing (22ECE1815)             | VIII ECE B           | Coding related to Docker and Kubernetes           | 11-04-2026                          |
| 13    | Dr. Ashwini S. Savanth | Cloud Computing (22ECE1815)             | VIII ECE B           | Flipped Classroom                                 | 13-12-2025                          |
| 14    | Dr. Lakshmi Bhaskar    | AIML applications using MATLAB 24ECE155 | Vth and A            | Poster Presentation                               | 16-10-2025                          |
| 15    | Dr. Lakshmi Bhaskar    | 24ECE134                                | III rd and A         | Design and analysis of circuits using Virtual lab | 02-12-2025                          |
| 16    | Dr. Sunitha S V        | Microwave and Antennas & 23ECE162       | VI th SEM B SEC      | Role play and Debate                              | 09-01-2026                          |
| 17    | Dr. Sunitha S V        | Cyber Security and Privacy 22ece1731    | VII th sem           | Flipped Classroom                                 | 18-07-2025                          |
| 18    | Dr. Sunitha S V        | EMW & 23ECE152                          | Vth A                | Simulation based learning                         | 11-09-2025                          |
| 19    | Dr. Sunitha S V        | SPA USING MATLAB 24ECE146               | IV th A              | Signal reconstruction                             | 22-04-2026                          |