

**AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER**  
**DEPARTMENT INFORMATION TECHNOLOGY**

- **Academic Year:** 2024-2025, Semester-I
- **Name of Course:** Internet of things (314445-D)
- **Class:** TE-IT

**List of innovative methods used in Teaching and Learning**

| <b>Sr.No</b> | <b>Innovations by Faculties</b>                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>     | <b>Pedagogical in classrooms</b>                                                                                                                                                                                                                                                                                                                                                                                                                          |
|              | <ul style="list-style-type: none"><li>i. Real time examples.</li><li>ii. PPT</li><li>iii. Simulations</li><li>iv. Brain storming.</li><li>v. Videos</li><li>vi. Interactive: Ques-Ans sessions</li></ul>                                                                                                                                                                                                                                                  |
| <b>2.</b>    | <b>Collaborative learning</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |
|              | <ul style="list-style-type: none"><li>▪ Interactive Event: Conduct IoT Based project Competition for Students.</li><li>▪ Mobile Based: TE-IT class WhatsApp group for conveying study material</li><li>▪ Interactive panel: Smart Board for demonstration</li></ul>                                                                                                                                                                                       |
| <b>3.</b>    | <b>ICT Based Learning</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|              | <ul style="list-style-type: none"><li>▪ AVCOE Library Portal: Institute repository<br/><a href="https://www.avcoe.org/library.php">https://www.avcoe.org/library.php</a></li><li>▪ Introduction to Internet of Things by Prof. Sudip Misra IIT Kharagpur<br/><a href="https://onlinecourses.nptel.ac.in/noc22_cs53/preview">https://onlinecourses.nptel.ac.in/noc22_cs53/preview</a></li><li>▪ Online IoT project simulation for demonstrations</li></ul> |
| <b>4.</b>    | <b>Project Based Learning and On-Site Learning</b>                                                                                                                                                                                                                                                                                                                                                                                                        |
|              | <ul style="list-style-type: none"><li>▪ Conduct IOT based Project Competition at College Level.</li></ul>                                                                                                                                                                                                                                                                                                                                                 |
| <b>5.</b>    | <b>Work Available for Review and Critique</b>                                                                                                                                                                                                                                                                                                                                                                                                             |
|              | <ul style="list-style-type: none"><li>▪ Google scholar articles:<br/><a href="https://scholar.google.com/citations?user=iwjEiYAAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=iwjEiYAAAAAJ&amp;hl=en</a></li><li>▪ Teaching Pedagogies are available on institute website<br/><a href="https://www.avcoe.org/it.php">https://www.avcoe.org/it.php</a></li></ul>                                                                               |

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