Report on Add-on Course on Artificial Intelligence

Organized by: Department of Electronics & Telecommunication Engineering
Institution: SSBT's College of Engineering & Technology, Bambhori, Jalgaon
Course Duration: Starting from 24th March 2025

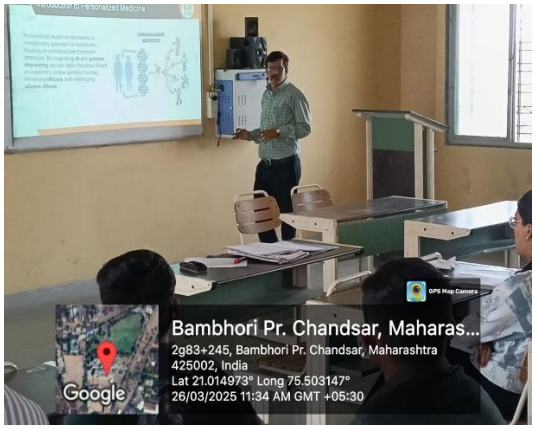
The Department of Electronics & Telecommunication Engineering at **SSBT's COET, Bambhori, Jalgaon**, organized an **Add-on Course on Artificial Intelligence (AI)** commencing from **24th March 2025**. The course was designed to provide students with an interdisciplinary perspective on emerging applications of AI in various engineering and technology domains.

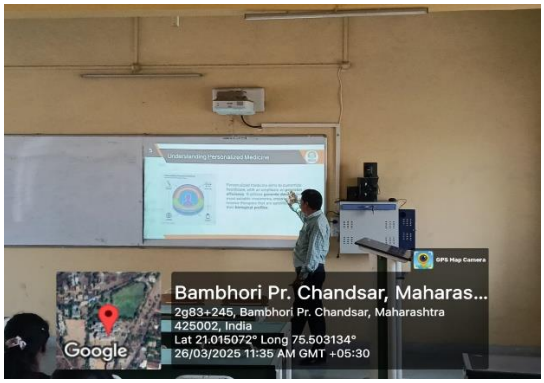
The program aimed to enhance the technical knowledge of students by offering expert lectures and practical sessions on real-world applications of AI. Various departmental faculty members with domain expertise delivered sessions as part of this structured course.

Schedule and Topics Covered:

- **24/03/2025**
  Dr. M. P. Deshmukh (HOD) conducted a session on **"Role of AI in Semiconductor"**, focusing on how AI is transforming semiconductor design, testing, and manufacturing processes. He highlighted AI's role in chip defect detection, performance prediction, and automation in the semiconductor industry.

- **25/03/2025**
  Dr. V. M. Deshmukh delivered a session on **"Performance Analysis of Solar Power Using Data Science & AI"**, demonstrating how machine learning models are used to predict solar power output, optimize panel orientation, and enhance system efficiency.
- **26/03/2025**
  - **Dr. A. H. Karode** spoke on **"Personalised Medicine & Treatment Model Using AI"**, where he explored AI applications in healthcare such as predictive diagnosis, treatment planning, and drug discovery tailored to individual genetic profiles.

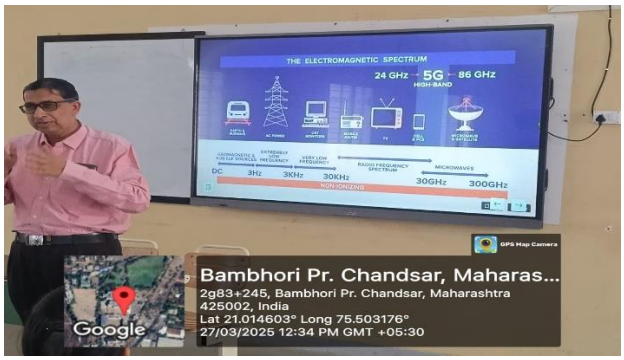


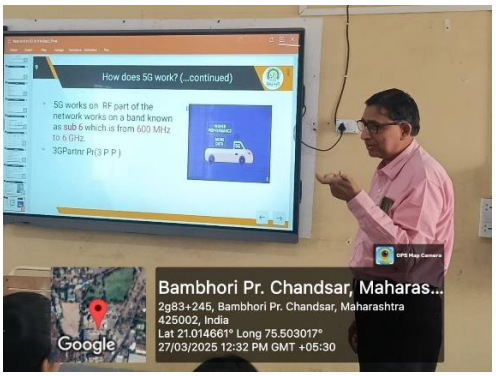


- **27/03/2025**

  Two insightful sessions were conducted:

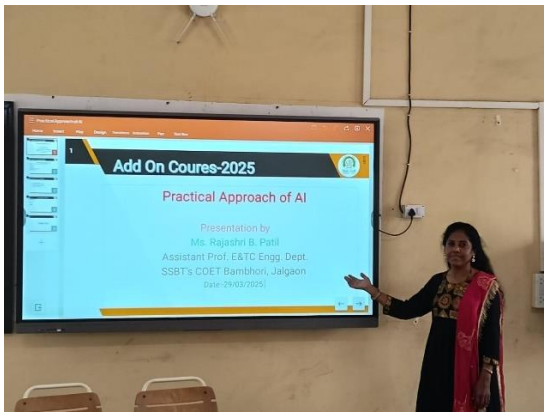
Dr. N. M. Kazi conducted a session on **"Role of AI in 5G"**, explaining the integration of AI in managing 5G networks, dynamic resource allocation, spectrum efficiency, and predictive network maintenance.

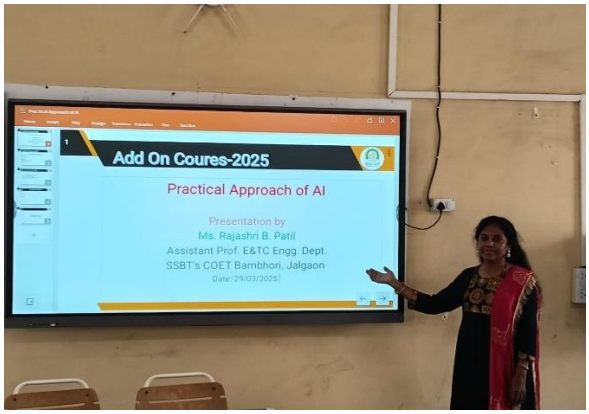




- **Mr. S. K. Khode** engaged students with a hands-on session on **"Hands-on Practice Using AI Tools"**, introducing tools like Python libraries, AutoML platforms, and simple model building using Jupyter Notebook.

- **29/03/2025**
  Ms. R. B. Patil concluded the course with a practical session on **"Practical Approach of AI"**, where he demonstrated real-life use cases such as AI in agriculture, finance, and automation. She also guided students in deploying basic AI models.





Outcomes:

- Students gained interdisciplinary knowledge about the applications of AI in sectors like semiconductors, renewable energy, healthcare, and telecommunications.
- Hands-on sessions enhanced the participants' understanding of basic AI tools and model development.
- The course served as a stepping stone for students interested in pursuing projects, research, or careers in AI-related domains.

Conclusion:

The **Add-on Course on Artificial Intelligence** was a successful initiative by the Department of Electronics & Telecommunication Engineering. It effectively bridged the gap between academic learning and practical implementation of cutting-edge AI technologies. The department expresses its sincere gratitude to all faculty members for their valuable contributions and active participation from students that made the course highly engaging and impactful.

Manish Pandurang Deshmukh

Digitally signed by Manish Pandurang Deshmukh
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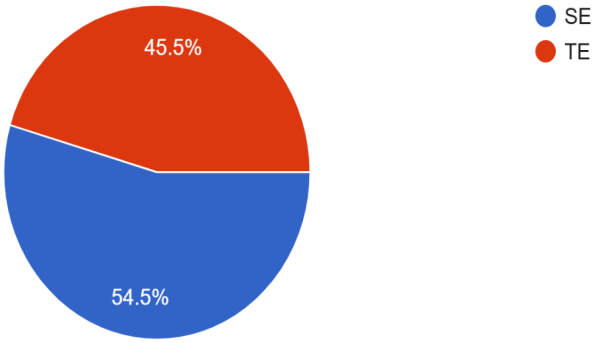
Dr. M.P. Deshmukh

(HOD)

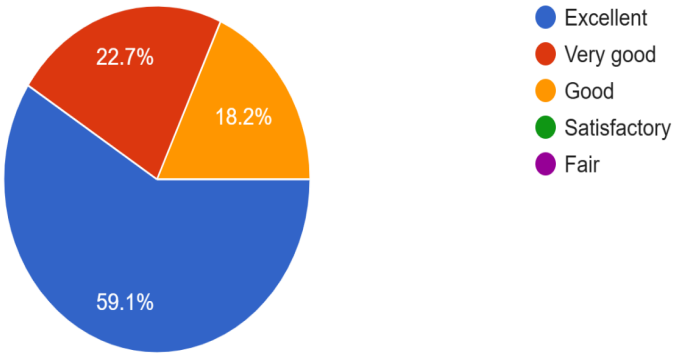
class

22 responses



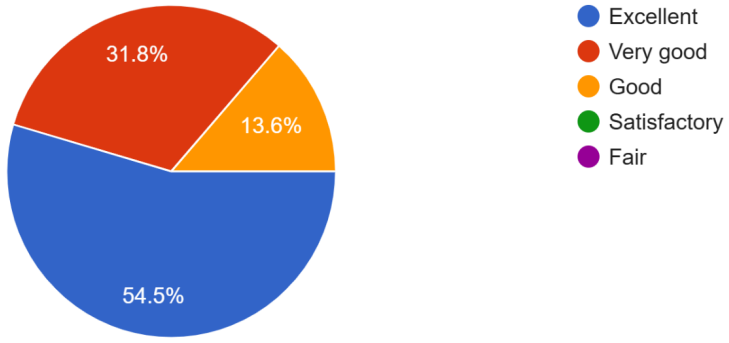
Rate overall organization of Add on Course program.

22 responses



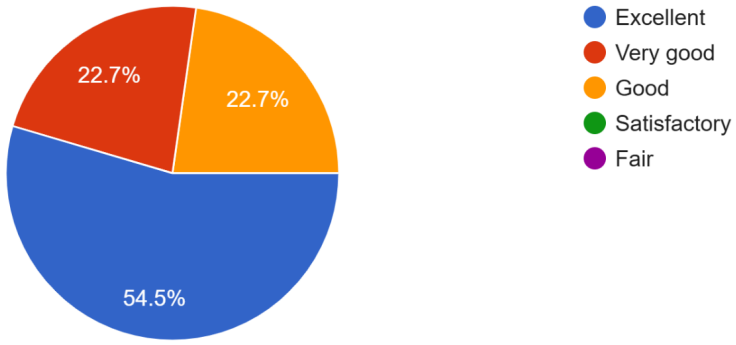
Rate the content discussed by speakers?

22 responses



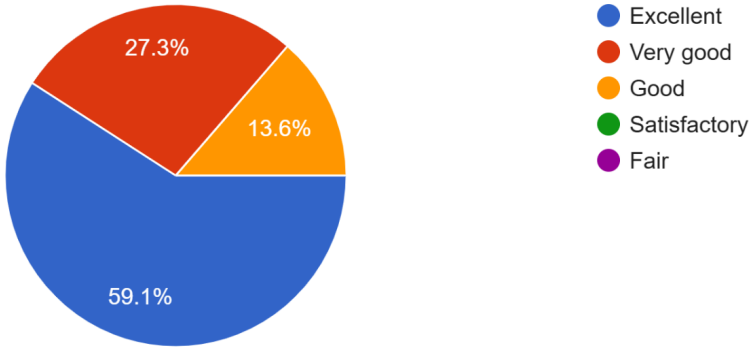
Rate the Add on Course from your expectation point of view.

22 responses



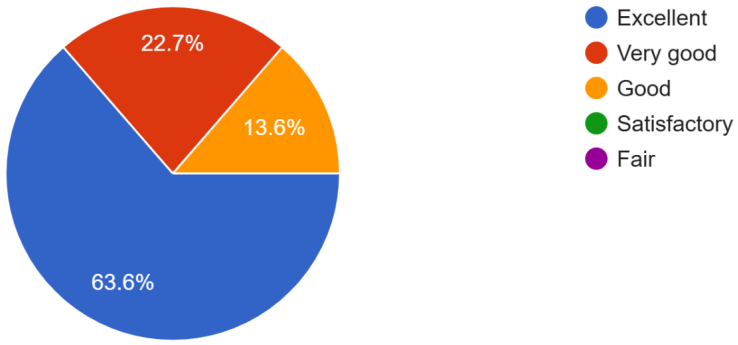
Rate the usefulness of add on course for design and build the electronics circuit practically.

22 responses



Rate the usefulness of add on course for knowledge related to various electronic component and devices in the field of Electronics and Communication.

22 responses



Is such type of add on course arrange in future?

22 responses