

COLLEGE OF COMMERCE



Affiliated to Savitribai Phule Pune University, Re-Accredited by NAAC
ISO 9001:2015 Certified, Awarded as Best College by Savitribai Phule Pune University
202/A, Deccan Gymkhana, Pune – 411004
principal@mmcc.edu.in, enquiry@mmcc.edu.in, www.mmcc.edu.in

Department of Computer Science Report on Guest Session on “Internet of Things and Physical AI”

1. **Nature of the event:** Guest Session
2. **Title of the event:** Internet of Things and Physical AI
3. **Organized by:** Department of Computer Science
4. **Date:** Thursday, 04th August 2026
5. **Time:** 11:00 AM to 12:00 PM
6. **Venue:** Hall no. 6
7. **Resource Person:** Mr. Rajendra Sapre
8. **Objectives of the Program:**

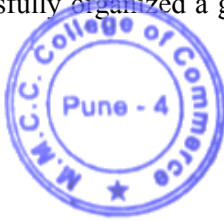
The primary objectives of conducting this competition were

 1. To introduce students to the fundamental concepts and applications of the Internet of Things (IoT).
 2. To familiarize students with the emerging concept of Physical AI and its integration with physical systems.
 3. To provide practical insights into the use of IoT, AI, sensors, robotics, and automation in real-world applications.
 4. To encourage students to explore emerging technologies and understand their relevance to current and future technological developments.
 5. To motivate students to develop technical skills and pursue career opportunities in IoT, Artificial Intelligence, robotics, automation, and related fields.
9. **Participants and Audience:**

The guest session on “Internet of Things and Physical AI” was organized for undergraduate students of the Department of Computer Science with the objective of providing them with knowledge about emerging technologies and their practical applications. The session aimed to enhance students’ understanding of IoT, Physical AI, automation, robotics, and intelligent systems. It also encouraged students to connect theoretical concepts with real-world applications and motivated them to explore emerging technologies as part of their academic and professional development.
10. **Number of Participants:**

A total of 212 students, along with faculty members and student volunteers, enthusiastically participated in the guest session. Their active involvement in the interactive discussions and technical interactions contributed significantly to the success of the programme.
11. **Brief description of the event:**

The Department of Computer Science successfully organized a guest session on “Internet of Things and



Physical AI”, conducted by Mr. Rajendra Sapre, who provided students with valuable insights into emerging technologies and their practical applications.

The resource person began the session by introducing the concept of the Internet of Things (IoT) and explained how physical devices, sensors, and connected systems communicate with each other through networks to collect, exchange, and process data. He discussed the growing importance of IoT in modern technological environments and highlighted its applications in areas such as smart homes, healthcare, agriculture, industrial automation, transportation, and smart cities.

Mr. Rajendra Sapre further explained the architecture and working principles of IoT systems, covering important components such as sensors, actuators, microcontrollers, communication networks, cloud platforms, and data processing systems. Through practical examples, students gained an understanding of how data generated by physical devices can be collected and utilized to monitor systems, automate processes, and support intelligent decision-making.

The session also introduced students to the emerging concept of Physical AI, explaining how artificial intelligence can be integrated with physical systems to enable machines and devices to perceive their surroundings, process information, make decisions, and perform actions. The resource person highlighted the growing role of AI-powered physical systems in robotics, autonomous vehicles, smart manufacturing, healthcare technologies, and other real-world applications.

An important aspect of the session was the discussion on the convergence of IoT, Artificial Intelligence, sensors, robotics, and automation. Students were made aware of how these technologies are increasingly working together to create intelligent systems capable of responding to real-world environments. The resource person emphasized that the future of technology would involve greater interaction between digital intelligence and physical systems.

The resource person also discussed various real-world applications and use cases of IoT and Physical AI, helping students connect theoretical concepts with practical implementations. These examples enabled students to understand how emerging technologies can be used to solve real-world problems, improve efficiency, automate repetitive tasks, and develop innovative technological solutions.

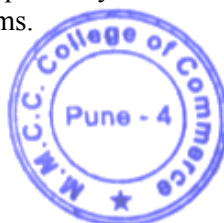
The session encouraged students to explore emerging technologies and develop technical skills relevant to the rapidly evolving IT industry. Mr. Rajendra Sapre also highlighted the importance of continuous learning, experimentation, and practical implementation for students aspiring to build careers in areas such as IoT, Artificial Intelligence, robotics, automation, embedded systems, and smart technologies.

The session concluded with an engaging question-and-answer session, during which students actively interacted with the resource person and clarified their doubts regarding IoT devices, AI applications, sensors, automation, and career opportunities in emerging technologies. The programme proved to be highly informative and provided students with a broader understanding of the integration of IoT and Physical AI in developing intelligent and connected systems.

12. Learning Outcome:

The guest session successfully achieved its objectives and provided students with valuable technical knowledge and practical insights, resulting in the following learning outcomes:

- Students developed a clear understanding of the concept, architecture, components, and applications of the Internet of Things (IoT).
- Students gained knowledge about the role of sensors, actuators, microcontrollers, communication networks, and cloud technologies in IoT systems.
- Students understood the emerging concept of Physical AI and its integration with physical devices, machines, and intelligent systems.



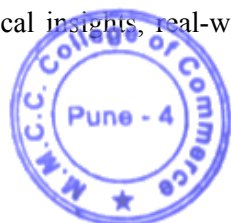
- Students recognized the applications of IoT and Physical AI in robotics, automation, smart cities, healthcare, manufacturing, and other real-world domains.
- Students were motivated to explore emerging technologies and develop practical skills relevant to IoT, Artificial Intelligence, robotics, automation, and other advanced technology domains.

13. Photographs:



14. Feedback:

Participants expressed highly positive feedback regarding the guest lecture and appreciated its relevance to their academic and professional development. Students found the session informative, interactive, and engaging. They particularly appreciated the practical insights, real-world examples, and applications of



Internet of Things (IoT) and Physical AI presented by the resource person. The session enhanced their understanding of emerging technologies, their applications, and future career opportunities, while motivating them to explore innovative technological solutions and develop relevant skills for the evolving IT industry.

15. Acknowledgment:

The Department of Computer Science sincerely acknowledges and expresses its heartfelt gratitude to everyone who contributed to the successful organization of the guest lecture on “Internet of Things and Physical AI.”

- Principal, Dr. Kishor Nikam, for his constant encouragement and unwavering support in organizing student development programmes and fostering technological learning among students.
- Head of Department, Dr. Rajeshwari Biradar, for her valuable guidance, motivation, and continuous support throughout the planning and execution of the programme.
- Mr. Rajendra Sapre, Resource Person, for delivering an informative, engaging, and insightful session that enhanced students’ understanding of Internet of Things (IoT), Physical AI, emerging technologies, and their real-world applications, while encouraging them to explore innovative technological solutions.
- Student coordinators and volunteers, for their sincere dedication, active involvement, and valuable assistance in coordinating and facilitating the smooth execution of the programme.
- All faculty and staff members of the Department of Computer Science, for their continuous cooperation, support, and collaborative efforts in contributing to the successful completion of the guest lecture.

Prepared By:



Prof. Charushila Nigudkar,
Co-ordinator

Verified By:



Dr. Rajeshwari Biradar
Head of Department

Authored By:



Dr. Kishor Nikam
Principal

