

Activity Report

VALUE ADDED COURSE

Academic Year: 2024-25

Name of Event: Value Added

Topic: “Unveiling the Power of Embedded Programming Through Tinkercad”

Name of the Speaker: Dr.Nitin.N.Sakhare

Date & Time of the Event: 10th and 11th January 2025, 12:00 AM to 5:00 PM

Targeted Audience: SE IT Students

Venue: I²IT, Pune

Coordinator: Prof. [Jyoti Manoorkar](#)

Number of Participants: 109

Activity Overview: Value Added Course on "Unveiling the Power of Embedded Programming Through Tinkercad"

A course was organized for the Second Year IT students on the topic "Unveiling the Power of Embedded Programming Through Tinkercad." The speaker, **Dr.Nitin.N.Sakhare**, an expert in Embedded Systems, led the session.

The lecture began with an introduction to Embedded Programming, explaining its significance and applications in modern technology. The speaker discussed the core concepts of Embedded Systems, including microcontrollers, sensors, and actuators, and their role in building intelligent systems.

The session then moved to Tinkercad, a popular online tool for learning and prototyping Embedded Systems. The speaker demonstrated how to use Tinkercad to create, simulate, and test embedded projects without the need for physical hardware. Students were shown how to

set up simple circuits and program microcontrollers using Tinkercad's built-in coding environment.

The next part of the presentation focused on practical applications. The speaker guided the students through a hands-on demonstration, where they designed a simple embedded project using Tinkercad. The project included programming a microcontroller to interact with sensors and actuators, providing a real-time example of how embedded systems work in action.

The final section of the lecture emphasized the potential of embedded programming in various fields, such as IoT, automation, and robotics. The speaker encouraged the students to explore more complex projects on Tinkercad and explore the world of Embedded Systems programming for their future careers.

The lecture was highly informative, giving students a deeper understanding of embedded programming and the power of Tinkercad as a tool for learning and prototyping. This session enabled students to gain hands-on experience with embedded systems, making their learning more interactive and practical.

EventPhotos:





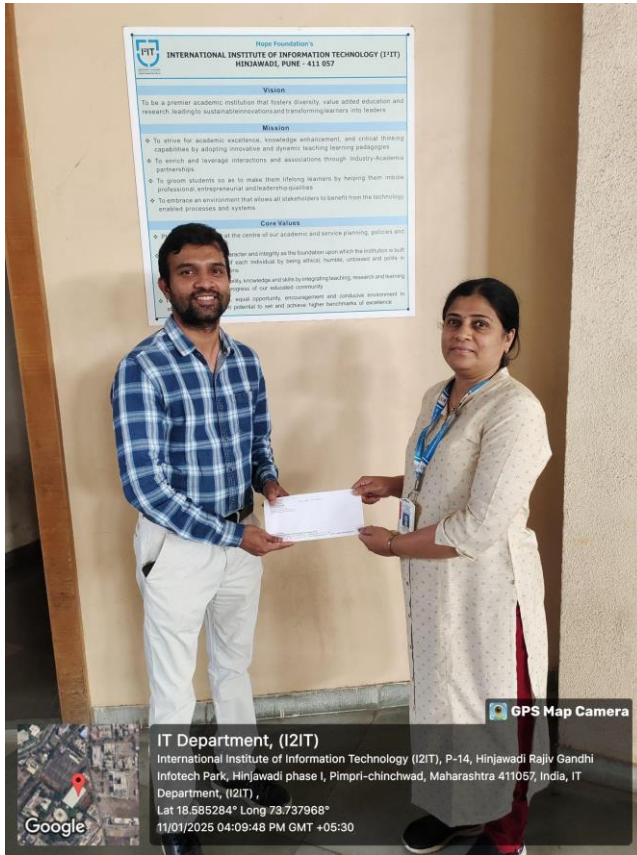
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Prof. Jyoti Manoorkar
Event Coordinator

Dr. Jyoti Surve
Head of Department



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