



**NEW HORIZON**  
**COLLEGE OF ENGINEERING**  
New Horizon Knowledge Park, Ring Road, Marathalli  
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Report

on

“Augmented and Virtual Reality Applications for Rehabilitation”

Workshop

**Name of the Event:** Workshop on Augmented and Virtual Reality Applications for Rehabilitation

**Event Date:** 29/04/2026

**Speaker Details:** Ms. Yasmeeen M S, Consultant Engineer, Sp4 Ameya Innovation Labs, Bangalore

**Venue:** CSE LAB-2

**Audience:** Interested 4<sup>th</sup>-Semester Students of all five sections.

**Gist of the Event:**

The Department of Computer Science and Engineering organised a hands-on workshop on 29/04/2026 titled “Augmented and Virtual Reality Applications for Rehabilitation”. The primary objective of the session was to familiarise students with React Native for developing cross-platform mobile applications while building foundational knowledge in Augmented and Virtual Reality (AR/VR).

The workshop commenced with an introduction to the fundamentals, features, and advantages of React Native. Participants were introduced to concepts such as component-based UI design, navigation, and state management. In addition, the session covered core AR/VR concepts from the basics, including their history, working principles, and real-world applications.

The practical session included the installation of Node.js, Expo, and Firebase integration. Students actively developed interactive UI elements and implemented features such as real-time data handling and user authentication. A live demonstration guided participants in building a basic social media application with functionalities including posts, likes, and comments.

The workshop also addressed key challenges in AR/VR technologies and discussed their future potential. Participants explored how AR/VR solutions can bridge industry gaps and were guided on developing projects aligned with current market demands. As part of the hands-on experience, students experimented with a simple AR/VR-based game using Python and were encouraged to design and present their own AR/VR game ideas.

The session concluded with discussions on emerging trends and innovative project opportunities, leaving participants motivated to further explore React Native and AR/VR technologies.

## Glimpses of the Event



The poster features logos for New Horizon College of Engineering (25th Anniversary), Institution's Innovation Council, and Computer Society of India. The title is 'Augmented and Virtual Reality Applications for Rehabilitation'. The date is 29th April 2026, from 09:30 AM to 04:30 PM, at CSE Lab 1, for 4th Semester Students. The speaker is Ms. Yasmeen M S, Consultant Engineer at Sp4 Ameya Innovation Labs.

Faculty Coordinators

**Dr. Florance G**  
Senior Assistant Professor - CSE

**Ms. Priya N**  
Senior Assistant Professor - CSE

**Ms. Sayani Baisya**  
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**Dr. Asha Joseph**  
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Coordinator

CSE-HoD-3

CSE-HoD-2

CSE-HoD-1