SRI VENKATESWARA COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)
R.V.S. NAGAR, CHITTOOR-517 127, ANDHRA PRADESH
DEPARTMENT OF INFORMATION TECHNOLOGY

CIRCULAR

Date: 10-02-2022

It is hereby informed that our department is planned to organize a Seminar to all the students of IT department on the topic **"Augmented reality"** from **12-02-2022.** All the students are instructed to use this opportunity and attend the same without fail.

HoD - IT

Copy to:

1. Principal sir for kind information
2. Circulate among the faculty
3. Circulate among the students

SRI VENKATESWARA COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous)

RVS NAGAR, TIRUPATI ROAD, CHITTOOR (A.P)- 517127.

Department of Information Technology in association with ACM student chapter

Cordially invite you for the Online Seminar on

"Augmented reality"

Resource Person

Dr. Rajesh M, Associate Professor, VIT Vellore.

Date: 12-02-2022

Event Coordinator

(Mrs.R.SWETHA)

HOD – IT

(Dr. J. VELMURUGAN)

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DEPARTMENT OF INFORMATION TECHNOLOGY

Report: Seminar on Augmented Reality

Organized By: Department of Information Technology, SVCET

Event Type: Seminar

Resource Person: Dr. Rajesh M, Associate Professor, VIT, Vellore

Date: 12th February 2022

Mode: Online

Venue: SVCET

Audience: IT Department students of SVCET

Coordinator: Faculty members of the Department of IT, SVCET

Head of the Department: Dr. J. Velmurugan

Introduction

The Department of Information Technology, SVCET, organized a seminar on *"Augmented Reality"* on 12th February 2022. The session was conducted by Dr. Rajesh M, Associate Professor at VIT, Vellore, renowned for his expertise in emerging technologies, including augmented reality (AR). The seminar aimed to introduce students to the world of AR, highlighting its foundational concepts, applications, and future potential in various industries.

Objective

The seminar's primary objectives were:

- To provide students with a comprehensive understanding of augmented reality.
- To explore the technical framework and tools used in AR development.
- To inspire students to leverage AR technology in their academic projects and futurecareers.

Session Highlights

1. *Welcome Address*

The seminar began with a welcome note by the faculty coordinator, who introduced Dr. Rajesh M and highlighted his significant contributions to the field of augmented reality and immersive technologies.

2. *Introduction to Augmented Reality*

Dr. Rajesh started the session by explaining the basics of AR, focusing on:

- Definition and key features of AR.
- Differences between Augmented Reality (AR), Virtual Reality (VR), and MixedReality (MR).
- Evolution of AR technology over the years.

3. *Core Components and Frameworks*

The session covered the technical aspects of AR, including:

- Hardware used in AR (smartphones, AR glasses, headsets).
- Software frameworks like ARKit, ARCore, and Vuforia.
- Importance of spatial mapping, object recognition, and real-time data rendering in AR.

4. *Applications of Augmented Reality*

Dr. Rajesh demonstrated various use cases of AR across industries:

- **Education:** Enhancing interactive learning experiences through AR applications.
- **Healthcare:** AR in surgeries, diagnostics, and medical training.
- **Retail and E-commerce:** Virtual try-ons and immersive shopping experiences.
- **Gaming and Entertainment:** Popular AR games and AR-based live events.
- **Manufacturing:** Streamlining processes through AR overlays for assembly and maintenance.

5. *Challenges and Future Trends*

The session also discussed challenges and the potential future of AR:

- Technical challenges such as latency, limited hardware capabilities, and AR content creation.
- Ethical concerns, including privacy and data security.
- Future trends like AR in the metaverse, advancements in hardware, and integration withAI.

6. *Interactive Q&A Session*

The seminar concluded with an interactive Q&A session. Students asked questions about the feasibility of AR in startups, career opportunities in AR development, and the role of AR in smart city projects. Dr. Rajesh provided practical insights and guidance.

Outcomes

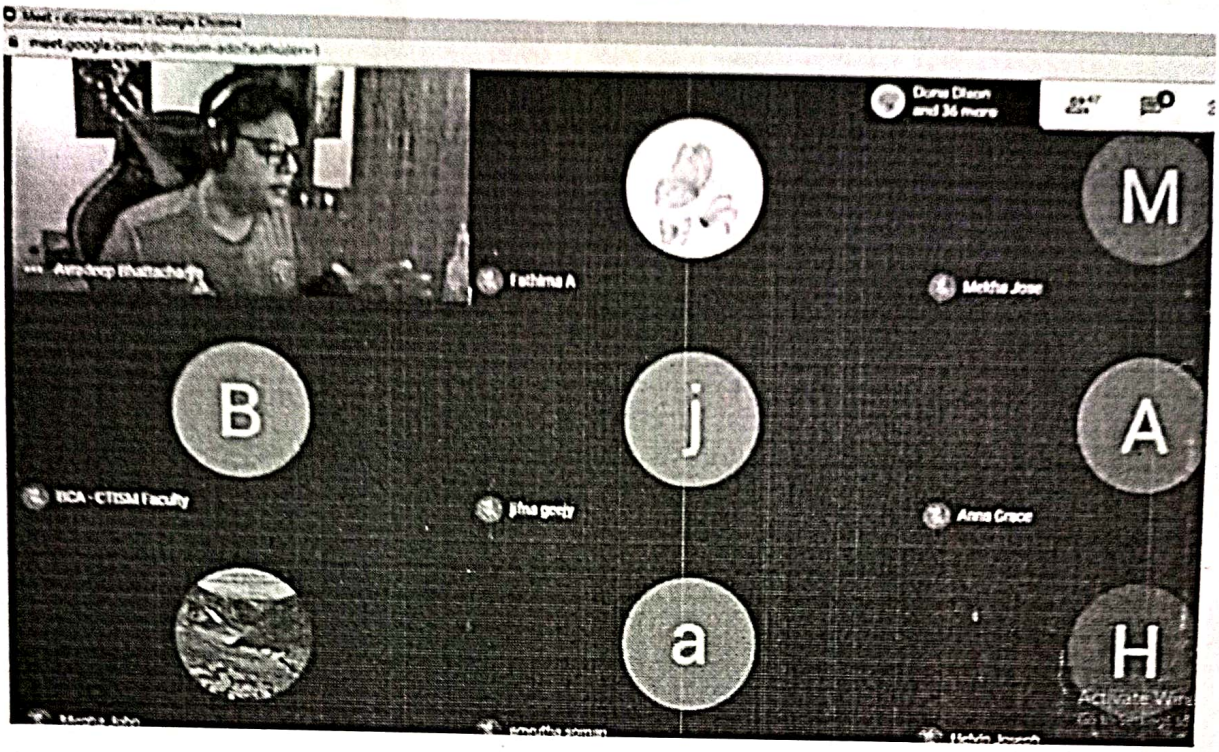
- **Conceptual Clarity:** Students gained a solid understanding of augmented reality and its practical applications.
- **Technical Exposure:** The seminar introduced students to AR development tools and technologies.
- **Career Motivation:** The session inspired students to explore AR as a field of study and career option.

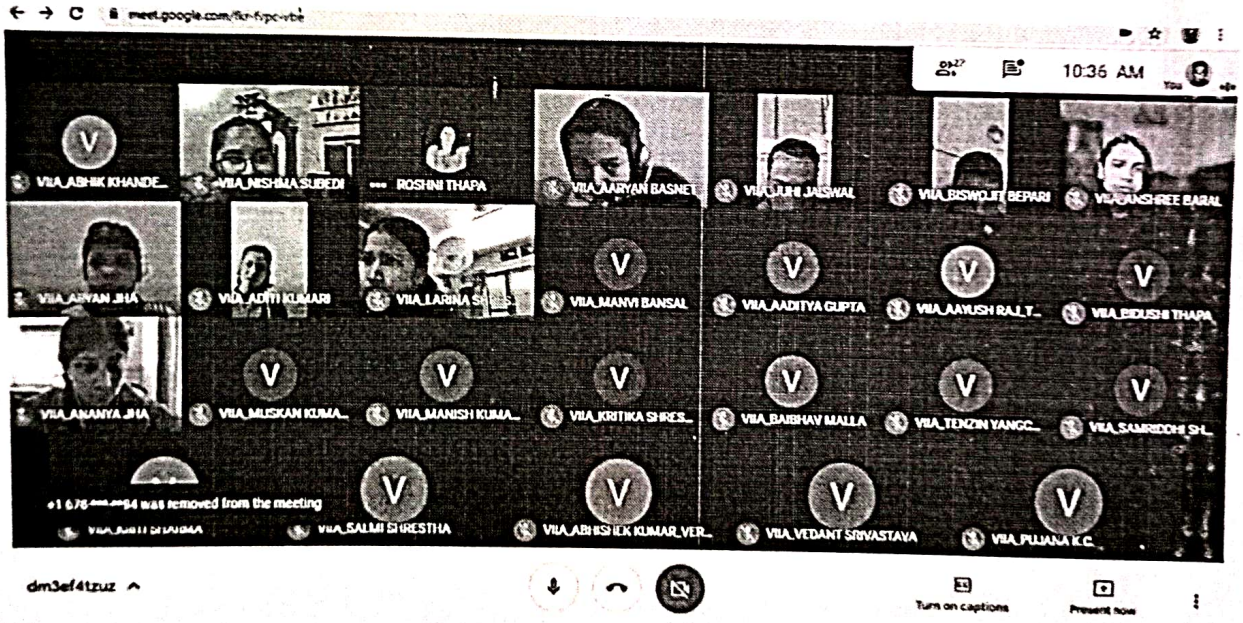
Feedback and Appreciation

The seminar received enthusiastic feedback from participants for its informative and engaging content. Dr. Rajesh's expertise and ability to explain complex concepts in a relatable manner were highly appreciated.

Dr. J. Velmurugan, Head of the Department, extended heartfelt thanks to Dr. Rajesh M for his valuable insights and the faculty coordinators for organizing the seminar efficiently.

Screenshot





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