



NALLA NARASIMHA REDDY
Education Society's Group of Institutions - Integrated Campus
(UGC AUTONOMOUS INSTITUTION)



Department of ELECTRONICS AND COMMUNICATION ENGINEERING

A Report on 5 Days FDP on “Metaverse for Immersive communication and digital interaction AR/VR digital twins(focus)” (2nd June 2025 to 6th June 2025)

The Department of Electronics and Communication Engineering successfully organized a Five-Day Faculty Development Program (FDP) on "Metaverse for Immersive Communication and Digital Interaction: Focus on AR/VR and Digital Twins" from 2nd June 2025 to 6th June 2025. The FDP was organized with the objective of providing faculty members with comprehensive knowledge of emerging immersive technologies, including the Metaverse, Augmented Reality (AR), Virtual Reality (VR), and Digital Twin technologies.

The program brought together eminent academicians and experts from academia to share their expertise on the latest developments in immersive communication, virtual environments, Industry 4.0, Digital Twins, and their applications in engineering education, research, healthcare, manufacturing, and smart infrastructure. Throughout the five-day program, participants gained both theoretical understanding and practical exposure through expert lectures, demonstrations, interactive discussions, and real-world case studies. The FDP provided an excellent platform for faculty members to enhance their knowledge, explore current research trends, and strengthen their teaching and research capabilities in next-generation communication technologies.



Day-1

Dr. T. Kalpalatha Reddy, Additional Dean (E&T), Dr. M.G.R. Educational and Research Institute, Chennai, delivered the inaugural technical session on the fundamentals of the Metaverse, AR/VR, and Digital Twin technologies. The session introduced immersive communication, enabling technologies, industrial applications, and future research opportunities.



Chief Guest Dr. T. Kalpalatha Reddy delivering the session

Day-2

Dr. S. Ravi Chand, Professor & Director RDC, DNR College (Autonomous), Bhimavaram delivered a session on Metaverse Communication Architecture and Digital Interaction Technologies. He explained communication frameworks, cloud computing, IoT, AI, blockchain, and cybersecurity for immersive environments.



Session by Dr. S. Ravi Chand.

Day-3

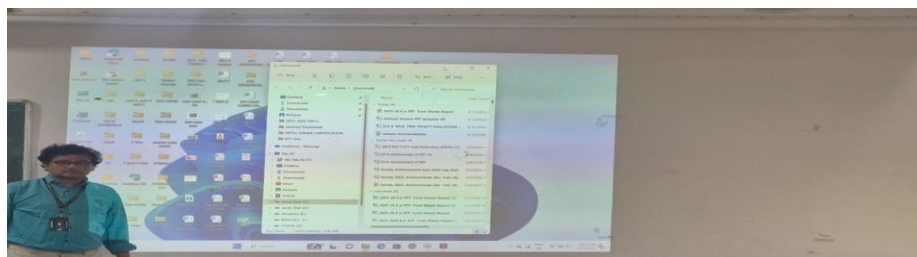
Dr. Ravi Bolimera, Associate Professor, NNRG, Hyderabad, demonstrated AR/VR applications and Digital Twin development using modern software tools with practical engineering examples.



A session by Dr. Ravi Bolimera.

Day-4

Dr. V. Sravan Kumar, Associate Professor, NNRG, Hyderabad, presented emerging trends in Digital Twins, Industry 4.0, cyber-physical systems, and smart infrastructure.



Session by Dr. V. Sravan Kumar.

Day-5

Mrs. K. Madhavi, Assistant Professor, NNRG, Hyderabad, concluded the FDP with applications of AR/VR in teaching, learning, and research followed by participant interaction and valedictory session.



Mrs. K. Madhavi delivering the Hands on session.

Valedictory Session

The five-day Faculty Development Program concluded with a valedictory session, during which the participants shared their valuable feedback and appreciated the insightful sessions delivered by the resource persons. The organizers expressed their gratitude to all the speakers, participants, and the management for their continuous support in making the FDP a grand success.



Participation certificates were distributed to all eligible participants, and the program concluded with a vote of thanks, encouraging faculty members to apply the knowledge gained in their teaching, research, and professional development.


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