SNS COLLEGE OF TECHNOLOGY

AN AUTONOMOUS INSTITUTION

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COIMBATORE

DEPARTMENT OF CIVIL ENGINEERING

19CET308 – AR VR IN CIVIL ENGINEERING

III YEAR / VI SEMESTER

Unit 1 : Introduction to VR

Topic 1 : Introduction

What is VR?

Virtual Reality
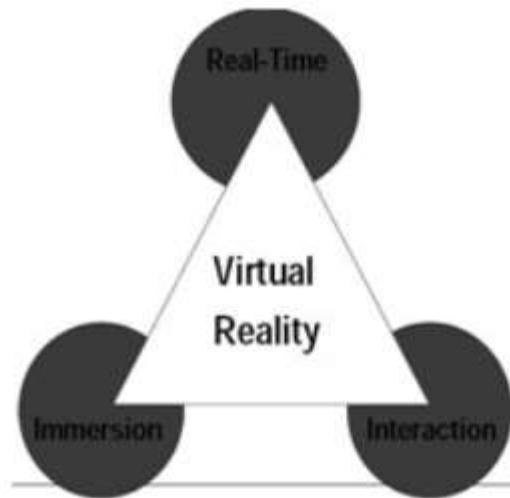
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Virtual Environment

➤ A Computer generated world with which the user can interact.

➤ Interaction can vary from looking around to interactively modifying the

world.

Virtual Reality

➢ A Computer generated, immersive (or wide field), multi-sensory information program which tracks a user in real time.

➢ Virtual Reality means feeling the imaginary (virtual) world, rather than the real one. The imaginary world is a simulation running in a computer.

➢ Virtual reality is the term used for computer generated 3D environments that allow the user to enter and interact with alternate realities.

➢ The definition of "virtual" is near and "reality" is what we experience as human beings.

Virtual Reality

Features of Virtual Reality

- Replaces real world

- Immersive multimedia/computer-simulated

- Replicates environment

- Simulates physical presence

- Allows interaction

Virtual Reality - Applications

Virtual travel, field trips

- Places, spaces

Immersive training

- Military

- Driving

- Other Simulations

Storytelling

Gaming

Therapy

Marketing

Applications of Virtual Reality

➤ Virtual Reality in the Military

Applications of Virtual Reality

➢ Virtual Reality in the Healthcare

Applications of Virtual Reality

➢ Virtual Reality and Education

Applications of Virtual Reality

➤ Virtual Reality and Scientific Visualization

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Applications of Virtual Reality

➢ Virtual Reality in Entertainment

Advantages and Disadvantages of Virtual Reality

Advantages	Disadvantages
▶ Virtual reality creates a realistic world.	▶ The equipments used in virtual reality are very expensive.
▶ It enables user to explore places.	▶ It consists of complex technology.
▶ Through Virtual Reality user can experiment with an artificial environment.	▶ In virtual reality environment we cant move by our own like in the real world.
▶ Virtual Reality make the education more easily and comfort.	

Thank You!!

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