

### Virtual Reality:

Virtual Reality (VR) is an amazing technology to experience the physics concepts without actually doing in real world. In Virtual Reality the persons will experience the virtual world akin to real world. Virtual Reality (VR) enables way better understanding of physics concepts in three dimensions than traditional two dimensional text books and in PowerPoint presentations.

Virtual Reality (AR) gives 3-D images of the equipment or the objects projected in the virtual world created using computer graphics. Virtual Reality also enables the students to experience the real environment without being present in that environment.

Most of the physics concepts require imagination and visualisation which is very difficult for majority of the students. But by using Virtual reality one can explain the same concepts easily and effectively with 3D objects and processes like it is happening before the students.

Virtual Reality is a very recent trend in technology and in the process of rapid development. The tech companies like Facebook now called Meta is investing heavily in Virtual Reality technology. The advance such as 5G technology and development of Optics enables VR technology more and more realistic. Many Best Educational Institutions around the world are leveraging the advantages of VR Technology. YouTube VR channels can be used to experience Virtual Reality apart from many device based Apps.

Development of VR technology in wide scale is making the technology more affordable and wide reachable. Students can interact with the objects by rotating, expanding, zooming etc. using associated VR device. VR technology can be used for **experiential learning** of physics concepts.

### Department of Physics:

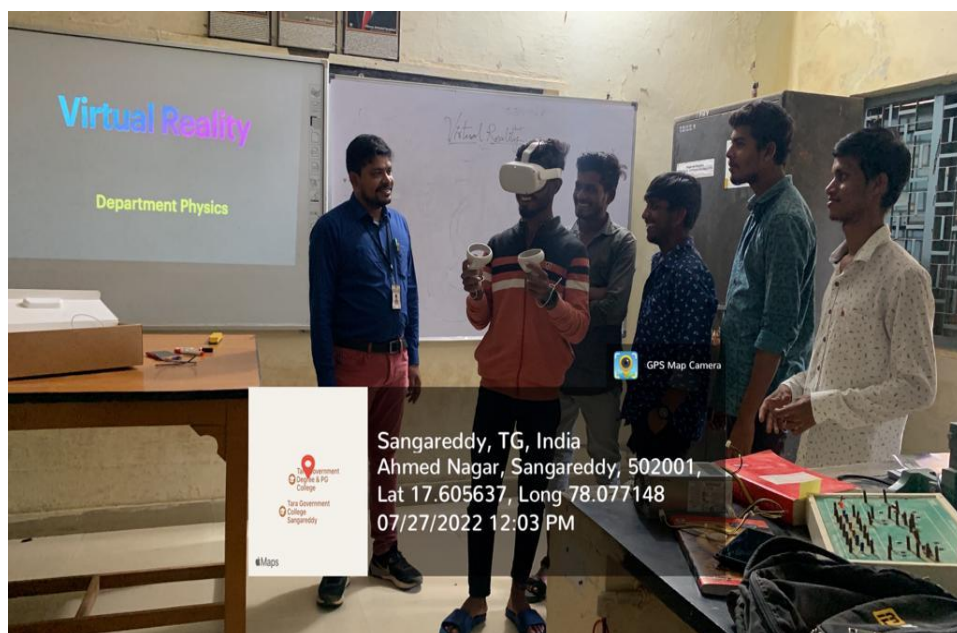
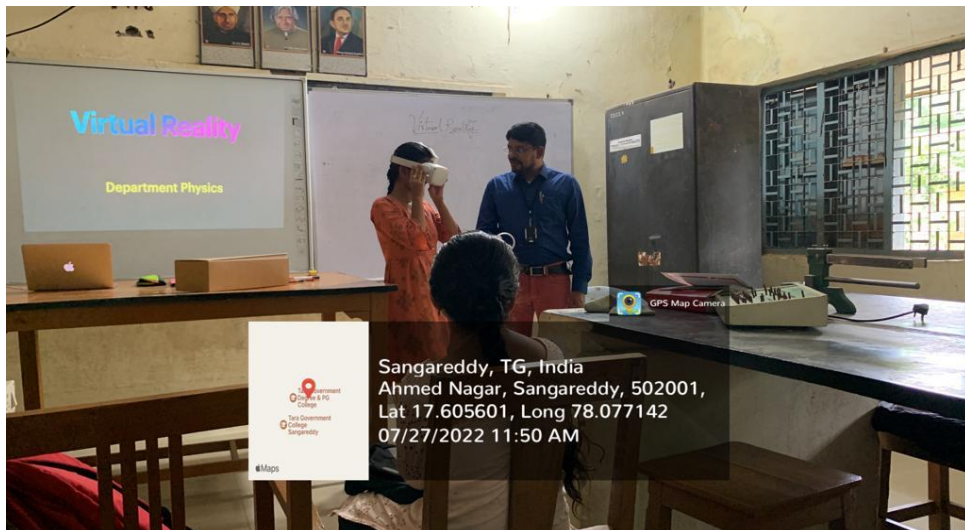
#### **Virtual Reality (VR)**

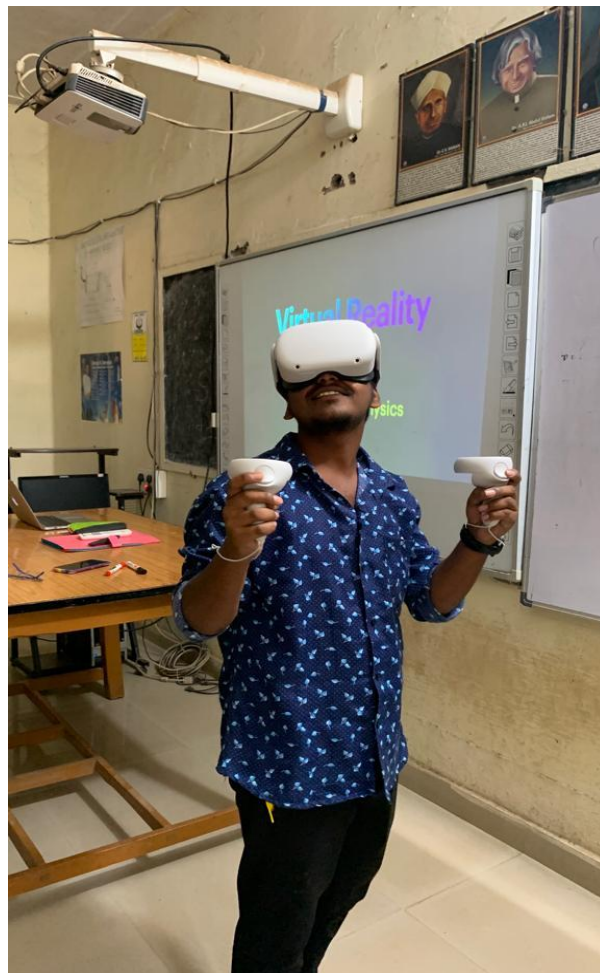
**Objective:** To introduce Virtual Reality (VR) in physics to the students.

**Date:** 27.07.2020

**No of Students participated:** 30

Virtual Reality in Education is most modern form of ICT. Sri P R Ratan Kumar, Assistant Professor of the department has demonstrated VR to the students. The students were introduced virtual reality view of International Space Station (ISS). The feel of standing inside ISS created lot of enthusiasm among students which otherwise not possible.





## Department of Physics

Program: Virtual Reality

Resource Person: P. R. Ratan Kumar

Date: 27.07.2022

Final yr

S. No	Roll No	Name	Group	Signature
1.	6058-20-468-156	Shaik. Imran Patel	MPCS	
2.	6058-20-468-108	Bande Ali	"	
3.	6058-20-468-085	K. Nikitha	MPCS	
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6.	6058-20-468-043	D. Navene	MPCS	
7.	6058-20-468-088	B. Saikeerthana	MPCS	
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12.	6058-20-468-088	K. Amrutha	MPCS	
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14.	6058-20-468-167	V. Prashanthi	MPCS	
15.	6058-20-468-157	Q. Asha	MPCS	
16.	6058-20-468-144	R. Sindhuja	MPCS	
17.	6058-20-468-117	N. Aishwarya	MPCS	
18.	6058-20-468-140	P. Akshitha	MPCS	
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