





Event Report

- 1. Name of Event: Workshop on Augmented Reality (AR) and Virtual Reality (VR)
- 2. Nature of the Event: Workshop
- **3.** Date: 14th, 15th, and 16th March, 2022
- 4. Time: 09:00 A.M. to 05:00 P.M.
- 5. Venue: 2nd Floor, Programming Lab, Anviksha, GSFC University
- Organized by: GSFC University, GUIITAR Council, SSIP, Startup Gujarat and IIC (MoE Gol)
- 7. Number of Participants: 15, Annexure 1
- 8. Speakers: Mr Raj Gohil, Trainer, and Mr. Roshan Rawal, Founder, ExpositARVR
- 9. Key Learning:

Day 1: 14/03/2022

- An introductory session on AR and VR Technology
- Explained Unity Engine software and its usage
- The session was divided into two parts:
 - Unity Engine Introduction
 - Introduction to C# and OOP concepts
- Unity Engine Introduction contained topics like navigation port, hierarchy, assets, prefabs, materials
- Explored Programming basics and OOP concepts of what classes, methods and properties. Introduction to functions and what arguments are. Basics of Conditional statement and loops.
- Session on real game and build a roll-a-ball game with help of unity physics and scripting
- Explained developers mode function for oculus and build an example scenes
- Instructed to Tej team to explore the XR Interaction Demo Scene
- Guided UI system to Anjali's team for AR













Day 2: 15/03/2022

- Started Introduction to Augmented Reality and Virtual Reality
- Explained the terms and difference between Augmented Reality/Virtual Reality and Mixed Reality
- Discussion on how Unity works with AR foundation and other SDKs to augment Virtual objects and scenes
- Hands on session with Vuforia SDK
- Students build Vuforia Image Target Demo on their computes
- Understand Vuforia Developers portal and different type of image target

AR Team (Anjali's Team)

Solving Android Build Problem

VR Team (Tej's Team)

- Build Demo Project with XR Interactables and office scene
- Making fire and smoke VFX using Unity's Particle effects
- Making custom 3d objects for scene

Day 3: 16/03/2022

- Deploying Vuforia Image Target on Android Phone
- Introduction to Unity UI Elements
- Making a slider app to change color of material of projected object
- Basic animation for Spawned Object

Completing Markerless AR spawning VR Fire Safety Team:

- Adding sounds and finishing touches
- Deploying final build in oculus













Photos:

































Annexure -1

Sr. No.	Name of Project	Sector	Full Name	Division	Mobile No.	Email Id	Gender
1	Creating Training & Laboratory Module through Virtual Reality Platform	VR Technology	Tej Dhruve	F&EHS	9408733653	19bt05006@gs fcuniversity.ac. in	Male
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9	Learning VR Technology		Parth Vankar	CSE	9638367298	21bt04d060@ gsfcuniveristy. ac.in	Male
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