



ANALYTICS ACADEMY



PROPOSAL TO KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

5-Day Session Plan for AR/VR Using Open Source Tools (6 hours/day)

Day 1: Introduction to AR/VR and Open Source Tools

Objective: Familiarize participants with the basics of AR/VR and introduce key open-source tools.

Morning:

- Introduction to AR and VR concepts.
- Difference between AR and VR
- Overview of the AR/VR industry and applications.
- Spatial Computing

Afternoon:

- Introduction to open-source tools (Unity, unreal engine).
- Installation and setup of software.
- Spatial Computing

Day 2: Basics of 3D Modeling

Objective: Familiarizing the fundamentals of 3D modeling.

Morning:

- Introduction to Blender interface and basic functions.
- Euforia - Intro
- Creating basic shapes and models.

Afternoon:

- Advanced modelling techniques and texturing.
- Hands-on practice with guidance.
- Discussion – Hardware's for VR (Meta Quest 1/2/3, Apple Vision pro , HTC VIVE)

Day 3: Introduction to Unity for AR Development

Objective: Provide a foundation in AR development using Unity.

Morning:

- Overview of Unity and its interface.
- Basics of creating a VR scene in Unity.

Afternoon:

- Importing 3D models into Unity.
- Hands-on session creating a simple VR environment.

Tools: Unity

Day 4: Integrating these technologies with AutoCAD and Project Allocation

Objective: creating and visualizing AR/VR content from AutoCAD designs.

Morning:

- Basics of AutoCAD
- Interface and navigation
- Creating and editing basic shapes
- Importing and exporting files in AutoCAD
- Creating 3D Models in AutoCAD
- Exporting AutoCAD models

Afternoon:

- File formats and compatibility
- Basic 3D modeling
- Importing AutoCAD models
- Refining and texturing models
- Basic scene setup
- Adding interactivity and navigation
- Finalizing Projects

Day 5: Final Project and Presentation Objective: Finalize AR/VR projects.

Morning:

- Tips for presenting AR/VR projects
- Creating demonstration plans
- Project Presentations
- Participants present their projects

Afternoon:

- Peer feedback and discussion
- Q&A and Open Discussion
- Discussing future learning resources

Duration: 5 Days

Cost of the Program: Rs.1500/ Head

