



**iMSD**  
INSTITUTE OF MEDIA  
STRATEGY & DESIGN

# Augmented Reality Course Outline





Duration: 3 Days

Related Courses: Mixed reality, eXtended reality and Virtual reality

#### Course Overview and Objectives

Augmented Reality (AR) is an innovative technology that superimposes computer-generated information, such as graphics, data, or interactive elements, onto the physical world.

This is commonly viewed through devices like smartphones, tablets, or specialized AR glasses, enhancing the way we interact with our surroundings by blending digital content with the real environment.

In this course, you will explore the core components of AR technology, including the essential hardware, software, tracking systems, and display mechanisms that make AR experiences possible.

Practical skills for navigation and utilization of various AR software tools.

#### Pre-requisites:

A basic to intermediate knowledge of design and software

## Augmented Reality Course Outline with Adobe Aero

### Introduction to Augmented Reality

- Hardware
- Software
- Tracking
- Display

### Hardware

- Items with cameras
- Items with sensors
- Displays for augmented reality content with sensors
- Tablets
- Smartphones
- AR glasses
- Wearable technology

### Software

- Analyze sensor data
- Combine digital material with the physical world

### Tracking

- GPS
- Markers
- Computer vision

### Display

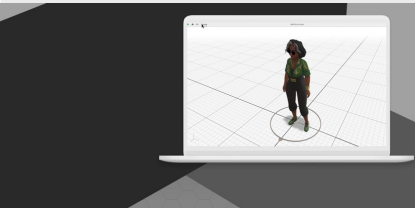
- Techniques for superimposing virtual content
- Basic text overlays
- Intricate 3D objects
- Enhances experiences
- Provides real-time information
- Opens new avenues for interaction with the environment
- Current trends:
  - Increasing availability
  - Integration into daily life
  - New opportunities for businesses and consumers

### Adobe Aero beginner level tasks

- Importing and placing 3D Objects
- Incorporating interactivity
- Creating basic animations
- Experimenting with materials and lighting
- Publishing and sharing
- Combining 2D and 3D elements
- Trying different spatial layouts



Adobe Aero offers an intuitive platform for creating and sharing immersive AR storytelling experiences, available on iOS and in public beta for desktop on macOS and Windows.



Aero is an intuitive and user-friendly augmented reality tool that allows users to create diverse experiences across various industries, including virtual exhibits and interactive posters.



The Aero system, connected via Creative Cloud, enables seamless authoring, testing, and importing of assets from Adobe Photoshop, Illustrator, Substance 3D, or third-party apps on macOS or Windows.

#### Adobe Aero intermediate level tasks

- Interactive 3D objects
- Animations and timelines
- Custom interactions
- Effects of lighting and environment
- Spatial audio integration
- Interactive UI elements
- Remote collaboration
- Analytics and user feedback
- Integration with creative cloud
- Publishing and distribution

#### Adobe Aero advanced level tasks

- Interactive experiences
- Advanced animations
- Logic and scripting
- Integration with other adobe tools
- Spatial awareness and realism
- Collaborative projects
- Data visualization
- Applications for training and education
- Marketing and branding efforts
- User analytics and optimization
- Custom Interactions and Animations
  - (a) Create Advanced Triggers
  - (b) Design Custom Animations
- Complex Scene Design
  - (a) Layer Management
  - (b) Multi-Layered Environments.
- Advanced Object Behavior
  - (a) Physics Simulations
  - (b) Dynamic Object Manipulation
- Integration with Other Adobe Tools
  - (a) Use Adobe Dimension or Substance
  - (b) Photoshop and Illustrator
- Enhanced User Experience
  - (a) Custom UI Elements
  - (b) Personalized Content
- Collaborative Projects
  - (a) Multi-user Collaboration
- Testing and Optimization
  - (a) Performance Testing
  - (b) Debugging
- Advanced Export and Sharing
  - (a) Custom Export Settings
  - (b) Integration with Other Platforms
- Interactive Storytelling

NB: We offer online support to clients on content covered on our courses.