MONOLITH®
RESEARCH AND TRAINING LABS

CERTIFICATION IN VIRTUAL PRODUCTION

COURSE OBJECTIVE:

Virtual Production is the most recent cutting-edge technology that is revolutionizing the filmmaking industry. Through a comprehensive curriculum, students will dive into the realms of cinematography within virtual environments. They'll harness the power of Unreal Engine to bring their creative visions to life with extraordinary realism.

In this course, students will be equipped with the expertise to create highly immersive and creative content that was once deemed impossible. Gain industry exposure, learn from Unreal Engine Authorized Trainers, and master skills required for a sparkling career in filmmaking.

JOB OPPORTUNITIES

- Virtual Production Supervisor
- Technical Director
- Real-time Compositor
- Video Engineer
- Environment Artist
- Matchmove Artist
- LED Engineer

SCOPE

Virtual Production is highly evolving technology and with it, the demand for skilled professionals is increasing. The global Virtual Production market is projected to produce over 3.4 billion USD by 2026. Across the world, major film studios and production houses are adopting Virtual Production techniques for enhanced filmmaking capabilities. Opening up abundant new job roles, Virtual Production is not only conquering filmmaking but also the gaming, architecture, advertising and simulation industries. With immersive experiences becoming more popular and widespread, Virtual Production is about to witness tremendous growth.

Unveiling the Opportunities in the Virtual Production Market - LinkedIn

SEMESTER	PAPER	TITLE
I	Lab	Pre- Production Techniques
	Lab	Cinematography
	Lab	Unreal Engine
	Lab	Virtual Production: Green Screen
	Lab	Virtual Production: LED Wall
	Lab	Post – Production Techniques
	Lab	Project

PRE-PRODUCTION TECHNIQUES

OBJECTIVE:

The objective of this module is to teach students how to plan, prepare, and organize virtual production projects efficiently. Students will be equipped with the essential skills and knowledge required to seamlessly navigate through the various production stages involved in Virtual Production.

KEY HIGHLIGHTS:

- Virtual Production Pipelines
- Storyboarding
- Concept Design
- Asset Creation
- Virtual Set Construction
- Pre-Visualization Techniques
- Budgeting for Projects

CINEMATOGRAPHY

OBJECTIVE:

This module focuses on equipping students with knowledge of camera handling and camera tracking principles designed to virtual production environments. Students will learn how to manage virtual cameras, translate traditional cinematography concepts, and leverage digital tools and technologies in the Virtual Production realm for effective storytelling and enhanced visual effects.

KEY HIGHLIGHTS:

- Virtual Camera Operation
- Lighting
- Framing
- Composition
- Camera Movement Techniques
- Real-Time Rendering
- Motion Capture Integration

UNREAL ENGINE

OBJECTIVE:

This module aims to equip students with the knowledge and skills to utilise Unreal Engine for Virtual Production. Students will understand the fundamentals of Unreal Engine and will effectively utilize Unreal Engine to design, build and manipulate virtual environments, characters, assets, etc.

KEY HIGHLIGHTS:

- Fundamentals of Unreal Engine
- UE workflows
- Virtual Set Creation
- Motion Capture Integration
- Designing Virtual Environments
- Interactive Storytelling Techniques
- Designing Assets

VIRTUAL PRODUCTION: GREEN SCREEN

OBJECTIVE:

This module focuses on effectively utilizing green screen technology for integrating live-action footage with virtual environments. Students will learn the principles of green screen compositing, and gain proficiency in integrating actors and props into virtual environments for realistic visual effects.

KEY HIGHLIGHTS:

- Green Screen Compositing
- Lighting Techniques
- Keying
- Post-Production Workflows
- Integrating Actors and Props
- Perspectives for Realistic Effects
- Matching Lighting

VIRTUAL PRODUCTION: LED WALL

OBJECTIVE:

This module aims to educate students on the principles, technologies and applications of LED wall technology to produce immersive and engaging visual effects via Virtual Production. Students will understand the functioning of LED walls – and learn how to set up, operate and design LED walls effectively.

KEY HIGHLIGHTS:

- LED Wall Technology
- Real-Time Rendering
- Content Creation
- Optimization
- Camera Tracking
- Interactive Lighting

POST-PRODUCTION TECHNIQUES

OBJECTIVE:

This module focuses on refining and enhancing virtual production content through post-production processes. It also covers the integration of live-action footage with virtual elements. Students will gain proficiency in utilizing post-production software tools and techniques specific to Virtual Production workflows.

KEY HIGHLIGHTS:

- Integration Of Virtual Elements
- Colour Grading
- VFX Integration
- Green Screen Keying
- Compositing
- Editing Techniques
- Sound Integration

PROJECT OBJECTIVE:

The objective of this module is to grasp fundamental concepts and techniques within the specialized realm of virtual production. Students will demonstrate proficiency and skills relevant to the cutting-edge technology of virtual production, aligning with the demands of contemporary filmmaking practices. Students will utilize their comprehension and skills to finish a project that corresponds with the virtual production landscape.

INDUSTRY CONNECT & PLACEMENT ASSISTANCE

For over twenty-five years, Monolith has provided media technology communication services to Japan, Singapore, India, Hong Kong, China, the Republic of Korea, Australia, and the United Kingdom. With over two decades of experience in providing staffing and HR solutions, Monolith has established itself as an industry leader in delivering high-level service quality among the top hundred Fortune Five Hundred companies.

Monolith offers full support to the learners by helping them build a strong portfolio and identify jobs that align with their interests and goals. Learners will get highly beneficial insights about the current job market and what employers seek through the program. By providing hands-on training with cutting-edge technologies, exposure to real-world use cases and internships through its industry connect, Monolith helps learners to gain an accurate view of the industry.

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