

# HIGHER NITEC IN BROADCAST & MEDIA TECHNOLOGY

## Core Modules

### Digital Media Ingestion

On completion of the module, students should be able to ingest media materials for broadcast and distribution. This module covers the principles of television, fundamentals of digital signal processing, and compression standards.

### Video Streaming Essentials

On completion of the module, students should be able to apply the fundamentals of networking in relation to the Open System Interconnection (OSI) model. This module covers basic knowledge in IPv4 addressing, Video On Demand (VOD) servers and cyber security awareness.

### Editing for Broadcast Standards

On completion of the module, students should be able to edit broadcast-quality media and convert it to various file formats for multi-platform delivery. This module covers media processing, technical editing methods and conversion of contents into multi-formats.

### Programme Schedule Management

On completion of the module, students should be able to support playout system operations in monitoring scheduled programmes and perform first-line recovery. This module covers the broadcast distribution services, standards and components of digital video broadcasting system and automatic playout system.

### Digital Media Services

On completion of the module, students should be able to implement file-based content workflows for digital media services such as, automatic QC and distribution of content via the Internet. This module covers the various services from content acquisition stage, archive and retrieval to multi-platform delivery.

### Studio Control & Management

On completion of the module, students should be able to configure and operate studio broadcast equipment such as vision mixers, reference monitors and video recorders. They should also be able to perform preventive maintenance and troubleshoot broadcast equipment and its supporting systems.

### Industry Attachment

On completion of the module, students should be able to apply and integrate the skills and knowledge that they have acquired at ITE College and develop competencies in other areas not covered in the curriculum, at the workplace.