



DEPARTMENT OF MEDIA ENGINEERING





Media engineering is a rapidly growing and an evolving area. It is an amalgamation of media technology and media principles. The value addition due to multimedia, and more specifically the e-media has forced the eco-system to think of innovation in media tools, implementation of tools, assessment tools, media quality, transparency and more so in integrating the general masses thereby, giving birth to a department in the institute named as 'Media Engineering'.

Digitisation, virtualization and cyber physical integration has created a new dimension in media and its related areas. Accordingly, gaming, e-content development, media entertainment, innovative instructional material, LMS, CMS, media communication, media tools, application for tools and educational product development are the prime focused areas of the department. Multimedia presentation and authoring, multimedia data compression and multimedia communication and retrieval, form the three foundational pillars of the department.

Social journalism and media research, development of quality MOOCs, production of documentary films, digital design and publishing are now given more cared attention in today's scenario. The department is engineered to create manpower needed for evolving media world. The department conducts various short-term courses on media and media related themes including application tools. The department is poised to conduct long-term programmes leading to master's degree in many upcoming areas pertaining to media engineering.



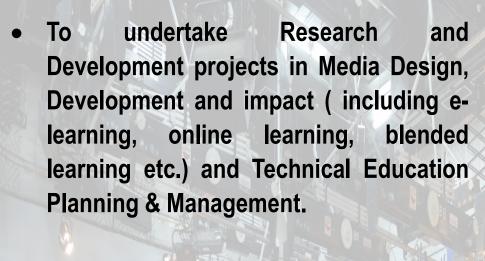
VISION

Department of Media Engineering will emerge as a Centre of Excellence for education, training and research in the areas of Media Design, Development, Marketing and Management.

MISSION

- To offer education and training programmes (both in contact and ICT mode) for improving the professional competencies of teachers and staff of Technical Institutions (Engineering Colleges and Polytechnics).
- Offer management training programmes for the personnel from industry and other organizations in the areas of media design, development, marketing and management.
- To develop instructional material (both Print and Non-Print) to enhance effectiveness of teaching-learning process and to develop MOOCs on Educational Technology and Educational Management.





 To provide extension and consultancy services to various stakeholders in the technical and education system and other organizations.



Objectives of the Department





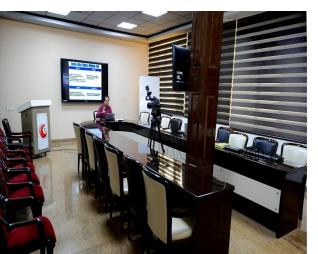
To develop e-content for digitization of technical education

To provide knowhow on cost effective ICT support for implementation of digitization of education



To offer innovative education and skill-training programmes on multimedia technology







To prepare competent faculty and technical staff to take up networked based research for effective TEL.

OUR ACTIVITIES



Education & Training

Long Term and Short Term (ICT & Contact Modes) Programmes in upcoming areas pertaining to media engineering.

Major Areas: Video Film Production (Scriptwriting, Storyboarding, Audio, Lighting, Camera, Graphics and Editing), Graphics and Animation (Skill based), Video Editing Techniques (Skill based), MOOC & E-content Development



Instructional Material Development

Print Material (Instructional booklets, Lab Manuals)

Non Print Material (Video Films for SWAYAM MOOCs, NITTT, NRC and e-lectures, E-content, Infographics and PowerPoint Presentations, Digital Designs)



Research & Development

Major Areas: Media Design and Development, Marketing and Management



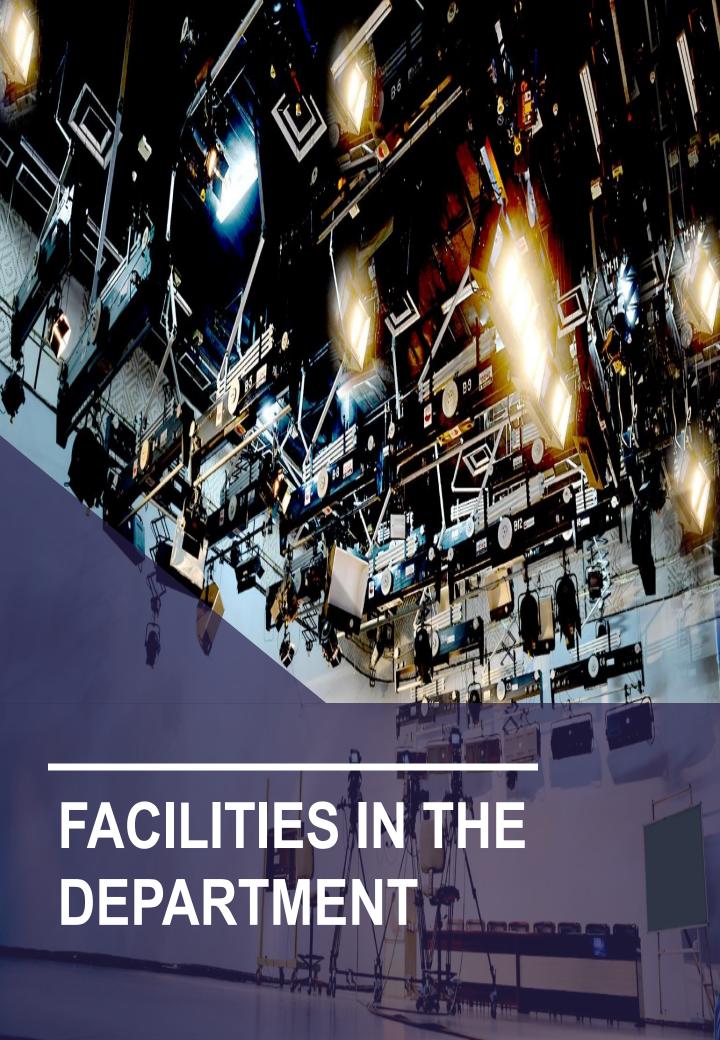
Curriculum Development

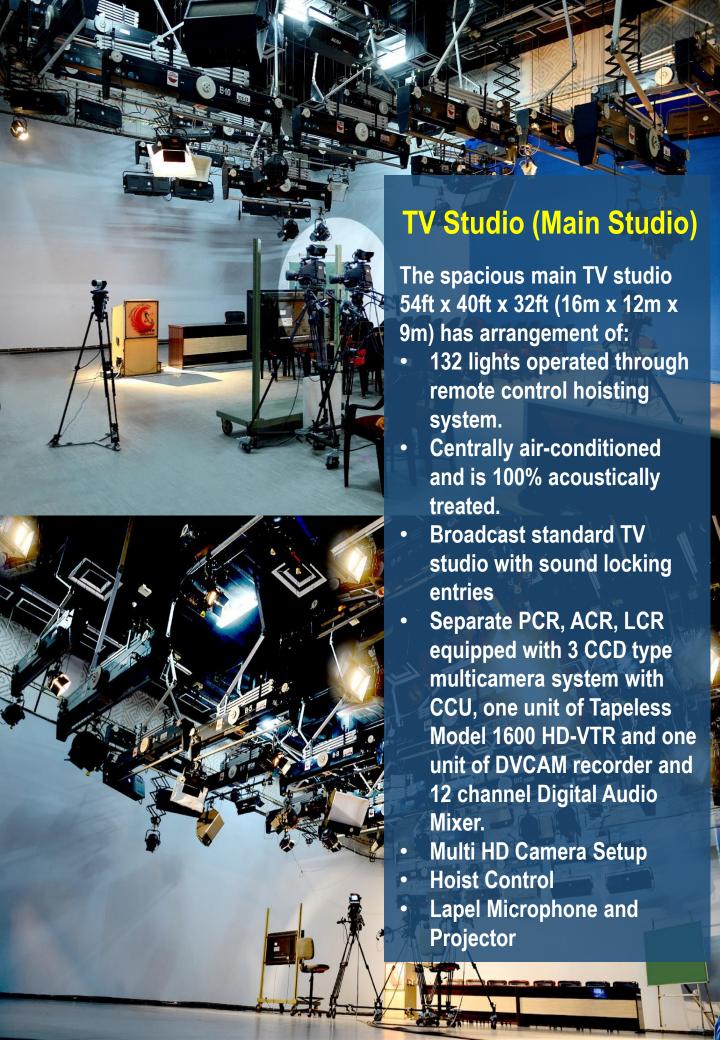
Design of programmes in Media Application, Graphics and Animation, Video Film Production, Media Design and Development



Extension Services & Consultancy

Areas of Consultancy Projects:
Development of Studio
Infrastructure, NBA
Accreditation, Video Film
Production, SWOT Analysis,
Script Writing etc.



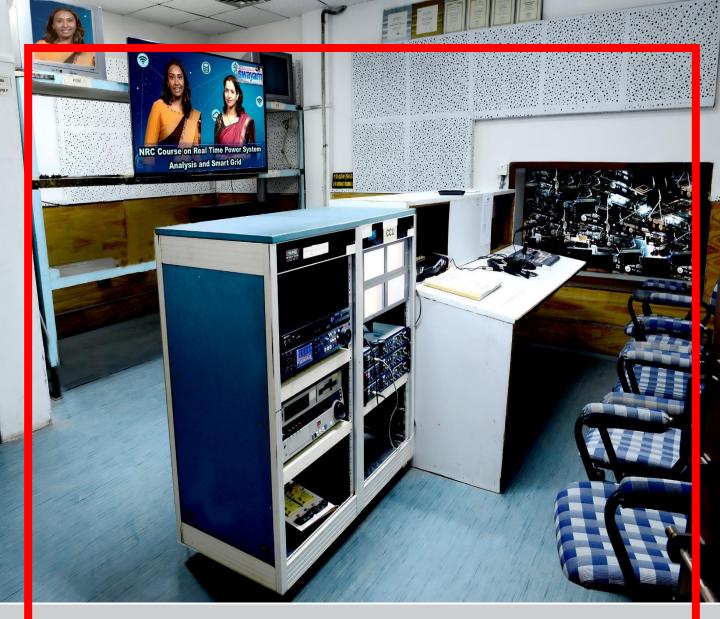




The Mini Studio has state-of-the art infrastructure:

- 3 CCD professional HD Camcorder PMW-EX3
- Audio mixer and Cool Lights
- DataVideo SE-800 Audio/Video Mixer
- Projector
- Microphones (Tube type and Lepal)
- UPS-3KVA
- Light Control Room
- Multi Camera Setup
- Vision Mixer
- Optical Disk Recorder
- Interactive Board
- Electronic Lectern and Plasma Display





PRODUCTION CONTROL ROOM

Vision Mixer

Optical Disk Recorder

3 Camera Control Units

Talk Back System

Multi Screen Display



AUDIO CONTROL ROOM

- Audio Mixer
- Amplispeaker
- Stereo System





LIGHTING CONTROL ROOM

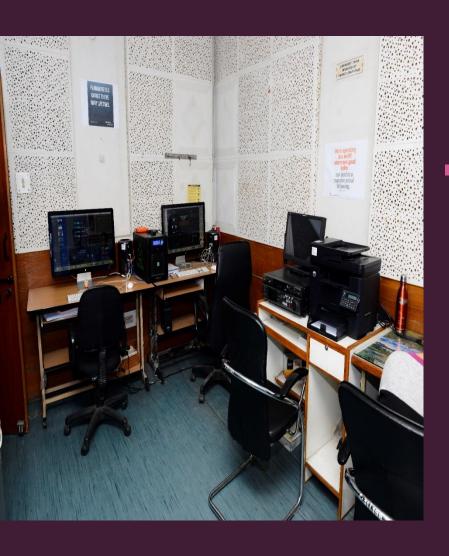


36 Channel Light
Dimmer Controller
and Patch Panel

Outdoor Recording Unit – ENG Lab

- 3 CCD professional HD Camcorders PMW-EX3
- Wireless microphone –EW 100 ENG and Lavalier Microphone
- Lighting porta pack
- Colour Monitors
- ENG Cameras
- Portable outdoor lights and other related accessories.





Non Linear Editing Lab

- 2 Final Cut Pro
- 1 Velocity Quattrus
- Non Linear Editing System
- MAC Systems
- 24 TB Small Tree
- Sony XD Recorder



GRAPHICS AND ANIMATION LAB

MAC Systems

18 TB Small Tree

24 TB Small Tree

Sony XD Recorder

Personal Computer



Interactive Board

Electronic Lectern

LED Display

Live Streaming Facility

GOLDEN JUBILEE SMART CLASSROOM

Setup for conducting ICT mode courses with single camera setup

Video Library

- Air-conditioned video library with a collection of more than 1200 files in Beta, DVDs and CDs for programme exchange and video film production.
- Video Archiver
- Betacam Tapes
- Optical Disks
- CDs & DVDs
- BetaCam VCR
- DVD Player
- Personal Computer

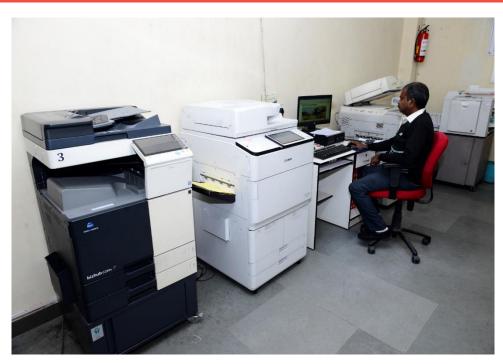




CONVERSION & ARCHIVING LAB

Equipped with state-of-the art:

- NLE System
- UltraStudio 4K
- Betacam Player
- Monitor
- Plasma
- Personal Computer





PHOTOCOPY & PRINTING SECTION

With a capacity to print approximately 4 lakh page in a working day (Both color and black & white)

Gyanvani Radio FM Channel (105.6 MHz)



Gyanvani is broadcasted from the institute in two slots, ie. 6 am to 10 am and 6 pm to 10 pm. It is an educational Radio Channel.

Past Achievements



Broadcasting of technical education Programmes for Gyan Darshan Channel

Since 26.01.2001, department of media engineering of this institute has been selected by ministry of Human Resource Development as nodal centre for broadcasting of technical programmes produced by the four Technical Teachers' Training Institutes in India from Gyan Darshan channel, Educational technical Programmes produced by these institutes are being broadcasted from Gyan Darshan Channel in 2 slots of half an hour each daily at 7.45 am and 2.30 pm for use by the teachers and students of various technical institutes in the country.

MAJOR ACHIEVEMENTS THROUGH INSTITUTE PROJECTS AND PROGRAMMES



Through Successful coordination of the video production of the following MOOCs modules: Graphics & Animation Development, Curriculum Implementation & Evaluation, Development of Self Learning Material and Research in Technical Education



Through Successful coordination of the video production of the following NITTT modules: Creative Problem Solving, Innovation & Meaningful R & D, Communication Skills, Modes and Knowledge Dissemination, Institutional Management & Administrative Procedures



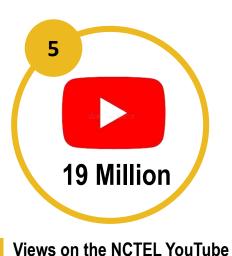
Through Successful coordination of the video production of ARPIT

Course on Big Data Analytics in Smart Grid

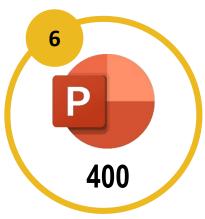


To launch a new PG DIPLOMA
COURSE on Digital Marketing
APPROVED BY UGC

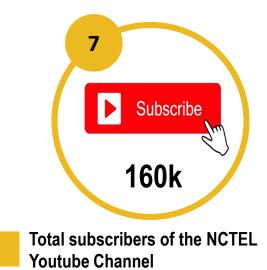
MAJOR ACHIEVEMENTS



channel of the Institute



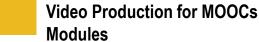
Powerpoint presentation were designed for various programmes conducted by the Institute





MAJOR ACHIEVEMENTS







Videos edited and uploaded on NCTEL YouTube channel of the Institute



ICT Programmes Technically Coordinated



Key enabler of Technical
Coordination of the ICT based
programmes in the seamless and
smooth conduct of programmes
during and post-COVID period.



THINKING MADE VISIBLE

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(An ISO 9001: 2015 Certified Institute)

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