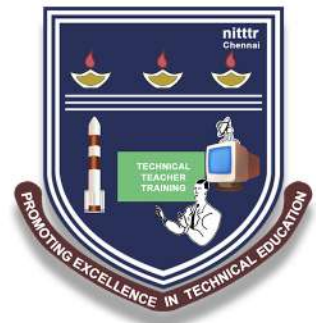


M.E. (E-Learning Technologies)

(Affiliated to Anna University, Chennai)

PROGRAM BROCHURE



Offered by

Centre for Educational Media and Technology
National Institute of Technical Teachers Training and Research

(Ministry of Education, Govt. of India)

Taramani, Chennai - 600 113, India

www.nitttrc.ac.in

M.E. (E-LEARNING TECHNOLOGIES) (Affiliated to Anna University, Chennai)



National Institute of Technical Teachers Training and Research (NITTTR), Chennai was established in 1964 by the Government of India under the Ministry of Human Resource Development (MHRD) as a key catalyst institution for ensuring quality in technical education in South India comprising the States of Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, Telangana and the Union Territory of Pondicherry. This Institute being a Resource Institute offers educational services in Curriculum Development, Instructional Methods / Media / Materials Development, Examination Reforms, Institutional Development, Continuing Education, Distance Learning, Training and Development, Educational Psychology and Educational Management and Research.

The Institute strives continuously and vigorously to further enhance its sensitivity to environmental changes and greater heights of excellence active collaboration with National and through International agencies on projects and programmes aimed at quality improvement of technical education systems.



CENTRE FOR
EDUCATIONAL MEDIA
AND TECHNOLOGY

offers

**M.E. E-LEARNING
TECHNOLOGIES TO
IMPROVE
EDUCATIONAL
QUALITY**

M.E. (E-LEARNING TECHNOLOGIES) (Affiliated to Anna University, Chennai)



CENTRE FOR EDUCATIONAL MEDIA AND TECHNOLOGY

Educational Media Centre (EMC) was established during the inception of the Institute. EMC is involved in developing video programs for Polytechnics / Engineering Colleges, Govt. organizations, and Industries. In the year 1986, ETV Studio was established with a state-of-the-art experience in many different aspects of educational media and television production. The studio is used to learn multi-camera production as well as film-style production.

As the technology evolved in the field of Educational Technology, Department of Educational Technology and Multimedia was established in the year 2003. In the year 2017, the advancement of Information and Communication Technologies encouraged the amalgamation of the Educational Media Centre and the Department of Educational Technology and Multimedia and renamed as Centre for Educational Media and Technology (CEMT). This Centre is involved in design and development of Instructional Media and Learning Resources for more than 4 decades.

VISION

> Leading Centre in Learning Technologies,
E-Content Development and Research.



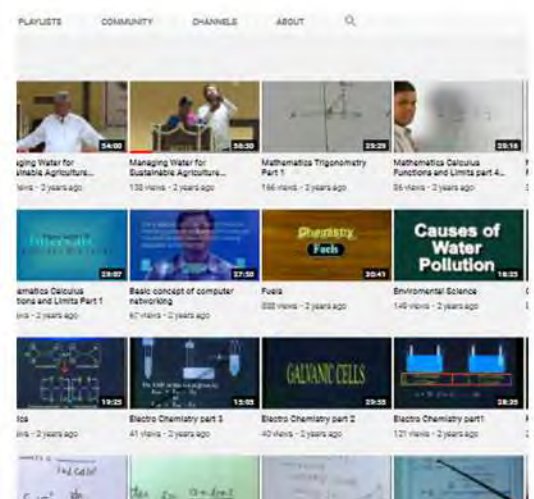
Conventional teaching aids such as charts, transparencies and variety of models are being designed and developed in different engineering disciplines. In the last 12 years the department got reoriented and transformed to develop digital teaching aids such as graphics, animations and simulations involving audio.



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Centre is involved in developing video programs for Polytechnics / Engineering Colleges, Govt. organizations and Industries. The developed video programs are being broadcasted through Gyandarshan, leading national educational television channel sponsored by the MHRD Govt. of India.



The Centre was involved in the Learning Materials Development Project, in which the developed video programs are being sent to various educational Institutions in simple VCD format to make the teaching – learning process effective. During the year 2018, these videos are made available in the YouTube Channel “NITTTR Chennai Educational Videos”.



Offered Courses on 'Educational Television Production for HRD', 'Computer Applications and Information Technology for HRD', 'Development of Online Training Programmes', 'Courseware Development for HRD Program' for long term programmes – Diploma / Post-Diploma / Post-graduate programmes.

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Offers short - term training programmes for Polytechnic and Engineering college teachers in various topics under the areas of Educational Technology, Instructional Media, E-content Development, Technology Enabled Teaching and Learning, E-learning, Open Educational Resources, Video Production and Script Writing.

Conducts Overseas Training Course (OTC) in Advanced Certificate Course on Educational Media Production for E-learning sponsored by ITEC. The Centre is also involved in offering modules on Educational Video Production, E-content Development and E-learning for other OTC programmes offered by the Institute



NITTTR - E-Content Development

Announcements About the Course Ask a Question Progress Monitor Course Staff

E-Content Development

With the advent of Internet and world wide web (www), the access to information has become very easy and the entire world is moving towards digitization. Twenty first century students learn in a global classroom and not necessarily within four walls. They are more inclined to find information by accessing the Internet through mobile phones and computers, or chatting with friends on a social networking site. The advancements in technology and the plethora of powerful and innovative digital devices and tools have a great potential to improve educational outcomes. Educators must understand that the use of digital content and devices will improve teaching and learning and thus enhance educational opportunities and benefit the learner. This course on E-content development is meant to understand the meaning and standards of e-content, learning objects, designing and development of digital resources for teaching and learning. Thus this course aims in providing the knowledge and skill for teachers to cater to present day learners and their learning styles.

Course outline

- Week 1: Minimalist Learning and E-Learning
- Week 2: Instructional Design Models
- Week 3: Multimedia Principles and Content Authoring Tools
- Week 4: Presentation Tools
- Week 5: Graphics and Animated Presentation
- Week 6: Audio and Podcasting Tools
- Week 7: Online Video Creation
- Week 8: Surveys, Polling and Quizzes

Total study time anticipated is between 40 - 45 hours in 8 weeks (including watching video files) with equivalence to 3 credits.



Develops e-content materials like videos and multimedia packages for SWAYAM MOOC under NMEICT, MHRD.

Conducts National / International Seminars and Workshops related to Educational Media, E-learning and Educational Technology.



COURSE OFFERED BY NITTTR, CHENNAI
Enroll Visit: www.swayam.gov.in



GUIDANCE AND
COUNSELLING



LMS - MOODLE ESSENTIAL
TRAINING



STUDENT ASSESSMENT



E-CONTENT DEVELOPMENT



STUDENT PSYCHOLOGY



QUALITY ASSURANCE
THROUGH NAAC
ACCREDITATION PROCESS



OER & OPEN
EDUCATION
PRACTICES



QUESTION PAPER
AUTHORING AND STUDENT
EVALUATION



QUALITY ASSURANCE
IN ENGINEERING
EDUCATION



INTEGRATING EDUCATIONAL
TECHNOLOGY
INTO TEACHING



REDEFINING LABORATORY
INSTRUCTION THROUGH
VIRTUAL LABORATORY

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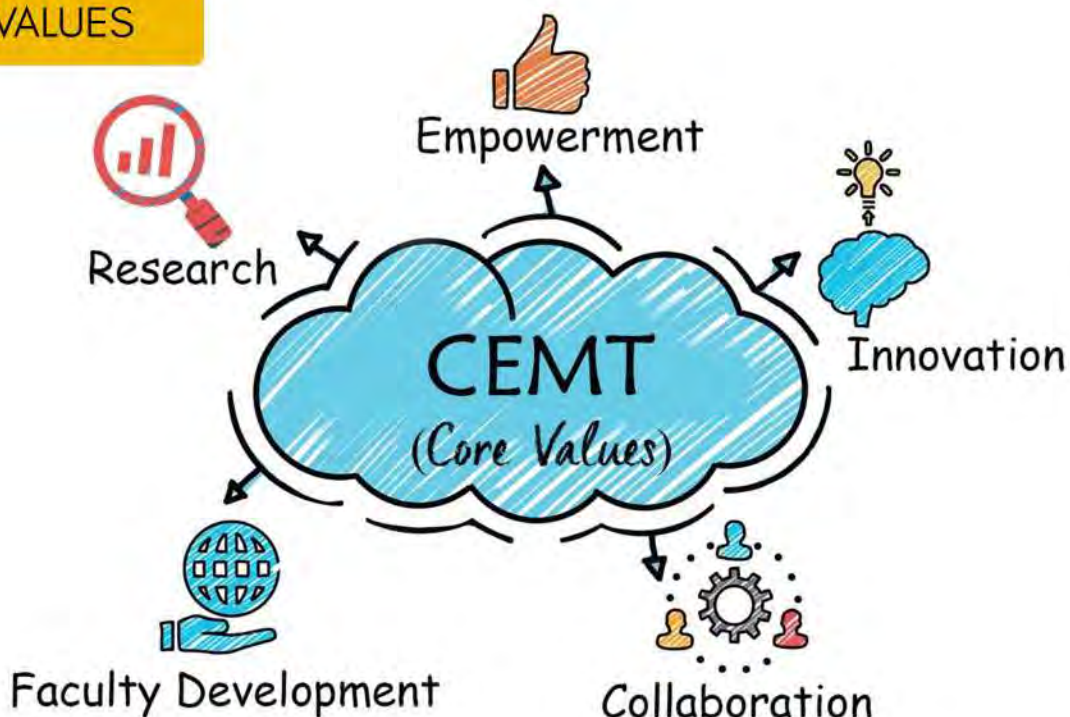
MISSION

- To design and develop need based training programs for the faculty of Polytechnic & Engineering Colleges and working Professionals of Industry and Govt. Organizations.
- To offer International Training Programs on emerging areas of Educational Media and Technology for the Teachers and working professionals of various Countries under ITEC schemes.



- To develop new innovative short-term and long-term programs by collaborating with Universities and Institutes of Higher Learning for developing Polytechnic and Engineering Teachers to meet the requirements of Engineering Educational Institutions.
- To provide support services to the Government of India schemes related to the technical education system and as entrusted by the Ministry of Education, Government of India, from time to time.
- To offer research, testing services and consultancy for Industries and Govt. Organizations
- To establish partnership with Industries for offering Skill based Training Programs and Industrial Training for the faculty of Polytechnic and Engineering Colleges
- To design new instructional systems and strategies for the production of multimedia learning resources and transfer through the latest technologies including broadcasting, webcasting/Multicasting.

CORE VALUES



M.E. (E-LEARNING TECHNOLOGIES)

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AREAS OF SHORT-TERM COURSES

- ▶ Instructional Design for E-learning
- ▶ Evolving Trends in E-Learning
- ▶ Digital Marketing
- ▶ Desktop Publishing
- ▶ Python for Data Science
- ▶ Learning Management Systems
- ▶ Interactive Multimedia in Classroom Teaching
- ▶ E-Resources
- ▶ Educational Video Production Workshop
- ▶ Free Software for Education
- ▶ OER and MOOC
- ▶ Statistics for Data Science
- ▶ Management Information System
- ▶ E-content Development
- ▶ 3D Modeling & Animation
- ▶ Technology Enabled Learning and Teaching



M.E. (E-LEARNING TECHNOLOGIES)

The Master's in E-Learning Technologies prepares postgraduates to excel in the diverse and pervasive field of e-learning to emerge as a skilled exponent of their field. Today's remote learning relies upon the internet for online and mobile learning. This Master's program is a versatile degree that opens a world of professional opportunities in the media rich-digital world. This coursework prepares the students to shape the future of any learning-driven organization, including corporates, NGOs, Government agencies, and Educational / IT / Animation sectors. The students will create e-Portfolio for promotions, job interviews, and implement numerous workplace-based e-Learning design projects. This program is designed for students to become professionals – educators, higher education staff, corporate trainers, and media managers - who seek to improve the use of e-Learning in their work, and advance their workplace leadership in this realm.

Since its inception in 1964, NITTTR Chennai is thriving in providing teacher training in technical education. In this era of MOOCs, NITTTR Chennai is coordinating the online programs for teacher education. The role of e-Learning is expanding exponentially in the education, non-profits, and corporate sectors. This degree is versatile and opens up a world of opportunity in the learning and data-driven organizations.

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PROGRAMME EDUCATIONAL OBJECTIVES (PEOs):

- ▶ To create E-Learning Technologies Profession by adapting to the rapid advances in new emerging technologies
- ▶ To foster the art and science of instructional design and develop practical skills to analyze performance and create new solutions, that meet instructional design models
- ▶ To inculcate leadership qualities, ethical attitude, team work and effective communication skills for successful professional growth

CORE COURSES

- ◆ Probability and Statistical Methods
- ◆ Research Methodology and IPR
- ◆ Principles of Multimedia
- ◆ Animation Techniques
- ◆ Instructional Systems Design
- ◆ E- Learning Design and Development
- ◆ Educational Technology
- ◆ Learning Analytics
- ◆ Mixed Reality
- ◆ Game Programming
- ◆ Short Film Development
- ◆ Industrial Training (4 weeks)
- ◆ Seminar
- ◆ Project Work (Phase I)
- ◆ Project Work (Phase II)

ELECTIVE COURSES

- ◆ Python Programming
- ◆ Student Psychology
- ◆ Digital Marketing
- ◆ Training and Development
- ◆ Learning Science
- ◆ Multimedia Databases
- ◆ Software Project Management and Quality
- ◆ Knowledge Engineering
- ◆ Web Design
- ◆ Multimedia Information Storage and Retrieval
- ◆ Mobile Application Development
- ◆ Design and Development of MOOC
- ◆ Artificial Intelligence
- ◆ Media Security
- ◆ Social Media Web Analytics
- ◆ Educational Management Information System
- ◆ Human Computer Interaction Techniques
- ◆ Visualization Techniques
- ◆ Sound Design and Engineering
- ◆ Video Processing and Analytics

SECTORS WITH HIGH JOB AVENUES FOR E-LEARNING TECHNOLOGIST GRADUATES ARE



Global Market Insights
E-LEARNING MARKET





PROGRAMME COORDINATORS



Dr. P. MALLIGA

Associate Professor & Head In-charge, Coordinator

Centre for Educational Media and Technology

Ph.: 044 - 2254 5433

Email: malliga@nitttrc.ac.in

AREAS OF EXPERTISE:

DBMS - NLP (Natural Language Processing) - Text mining - Cloud Computing - E-Learning Design and Development - Instructional Design - OER - MOOC - Open Educational Practices - LMS -Instructional Media Development



Shri A. P. FELIX AROKIYA RAJ

Assistant Professor, Co-coordinator

Centre for Educational Media and Technology

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Email: felix@nitttrc.ac.in

AREAS OF EXPERTISE:

Educational Technology – OER (Open Educational Resources) - E- Learning Design - Digital Marketing – Statistics - Learning Analytics - Machine Learning – MOOCs - Research Methodology - Open Pedagogy



NITTTR CHENNAI

An Autonomous Institute under MoE
Government. of India



CONTACT

THE DIRECTOR

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(Ministry of Education, Govt. of India)

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