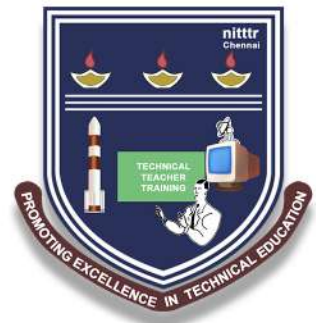


M.E. (E-Learning Technologies)

(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 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, 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.

2.0 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 (DoETMM) was founded in the year 2003. In the year 2017, the advancement of Information and Communication Technologies encouraged the amalgamation of the Educational Media Centre (EMC) and DoETMM was merged 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.



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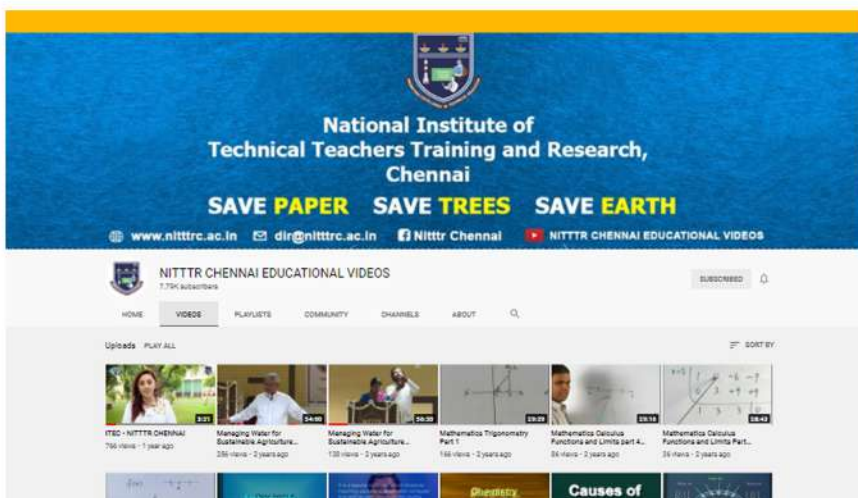
(Affiliated to Anna University, Chennai)



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 MHRD Govt. of India.



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 sound.



The Centre has identified 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 in Advanced Certificate Course on Educational Media Production for E-learning sponsored by ITEC and SCAAR. 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



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

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



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

M.E (E-LEARNING TECHNOLOGIES)

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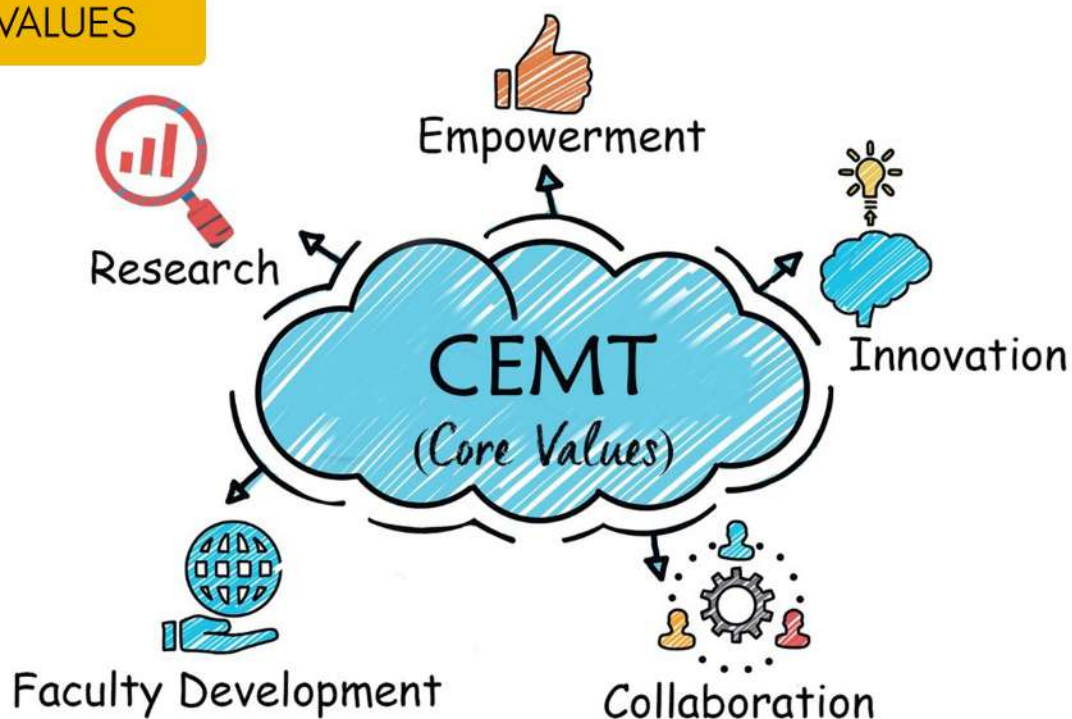
MISSION

- 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/SCAAP 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 MHRD, 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/Multi-casting.

CORE VALUES



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

3.0 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



4.0 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, Educational sector, IT, and Animation sector. 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.

M.E (E-LEARNING TECHNOLOGIES)

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PROGRAMME EDUCATIONAL OBJECTIVES (PEOs):

- ▶ To succeed in 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, 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

Credits: The minimum prescribed credits required for the award of the degree shall be within the limits : 65 to 75 (As per Anna University, Chennai)

UNIVERSITY EXAMINATIONS There shall be an End- Semester Examination of 3 hours duration in each course will be conducted by Anna University.

FACULTY INVOLVED



PROF. DR. SUDHINDRA NATH PANDA

Director

Ph.: 044 - 2254 5406

Email: dir@nitttrc.ac.in / nitttrchennai.director@gmail.com

AREAS OF EXPERTISE:

Water Conservation and Reuse, Systems approach for Integrated Land & Water Resources Planning & Management.



DR. P. MALLIGA

Associate Professor & Head In-charge
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



DR. V. SHANMUGANEETHI

Associate Professor and Head In-Charge
Department of Computer Science & Engg.

Ph.: 044-2254 5458

Email: shanneethi@nitttrc.ac.in

AREAS OF EXPERTISE:

Cyber Security - Distributed Algorithms
Data Analytics - Machine Learning - Active Learning Strategies and Learning Management System



SHRI A. P. FELIX AROKIYA RAJ

Assistant Professor
Centre for Educational Media and Technology

Ph.: 044 -2254 5477

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



DR. K.S. GIRIDHARAN

Associate Professor
Department of Engineering Education

Ph.: 044 – 2254 5481

Email: ksgiridharan@nitttrc.ac.in

AREAS OF EXPERTISE:

Intellectual Property Rights (IPR) – WIPO certified - Rural Development - Entrepreneurship Development - Pedagogy, Academic Audit - Question Paper Authoring and evaluation HRIS



DR. S. RENUKADEVI

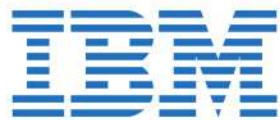
Professor & Head
Department of Engineering Education

Ph.: 044 -2254 5464

Email: bmrenuka@nitttrc.ac.in

AREAS OF EXPERTISE:

Engineering Pedagogy and Psychology - Instruction Design and Delivery System (IDDS) - Student Evaluation - Knowledge Management - Employability Skills - Gender Studies, Guidance and Counselling - Emotional Intelligence - Neuro-Linguistic Programming - Well Being, Yoga and Healing techniques





NITTTR CHENNAI

An Autonomous Institute under MHRD
Government. of India



CONTACT

THE DIRECTOR

National Institute of Technical Teachers Training and Research

(Ministry of Education, Govt. of India)

Taramani, Chennai - 600 113, India

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