



NEWSLETTER



MONTHLY NEWS

2026 AUGUST

VOLUME 9, ISSUE 8



NITTTR CHENNAI

NITTTR CHENNAI

NEWSLETTER

DIRECTOR'S MESSAGE



MONTHLY NEWS

VOLUME 9, ISSUE 8

AUGUST 2026

Greetings from NITTTR, Chennai.

I am delighted to present the August 2026 edition of our monthly newsletter, highlighting a dynamic month marked by impactful capacity-building initiatives, national integration, and key institutional collaborations.

A primary highlight of this month was our continued dedication to empowering the nation's armed forces. We successfully concluded the 12-week DGR-funded Certificate Programme on 3D Printing and Additive Manufacturing for Junior Commissioned Officers (JCOs) and Other Ranks (ORs) of the Indian Army, Navy, and Air Force. Additionally, we had the privilege of hosting Brig. Ranjan Keron, ADG, Directorate General of Resettlement (DGR), South Zone, as well as a senior delegation from the Naval Institute of Educational and Training Technology (NIETT), Kochi, to further strengthen strategic partnerships in training, research, and AI certifications for defence personnel.

Globally, our international footprint expanded through the ITEC programme on "Emerging Trends in Multimedia Content Creation with AI and Immersive Technologies," which brought together delegates from 19 countries. On our campus, we celebrated the 80th Independence Day with great enthusiasm, emphasising our role in nurturing a transformative technical teacher ecosystem for Viksit Bharat. We also observed Nasha Mukta Yuva for Viksit Bharat campaign, sensitised our staff through a Postal Life Insurance (PLI) awareness session, and celebrated National Sports Day 2026 by taking the Fit India Pledge and organising campus-wide sports competitions. Furthermore, NITTTR Chennai deepened its industry ties by signing an MoU with SS Tech Salem Commercials Private Limited. Across our main campus and extension centres, our faculty conducted numerous high-impact Professional Development Programmes covering AI-assisted pedagogy, Outcome-Based Education (GAPC 4.0), autonomous vehicles, data analytics, and POSH awareness. As we welcome the new 2026–27 cohort of Post-Graduate and Doctoral scholars I extend my heartfelt gratitude to our faculty, staff, delegates, and partner organisations for their unwavering commitment to excellence in technical education.

Warm regards,

Prof. Dr. Usha Natesan

Director, NITTTR Chennai

INSIDE THIS ISSUE :

INTERNATIONAL SEMINAR & WORKSHOP / TRAINING PROGRAMMES / MEMORANDUM OF UNDERSTANDING / MERIT OCCASIONS / SPECIAL SKILL TRAINING PROGRAMMES

CONFERENCES/SEMINARS/TRAINING/WEBINARS

FACULTY SEMINAR

Dr. P. Malliga, Professor & Head, Department of Computer Science & Engineering, delivered a Faculty Seminar at the Thiruvalluvar Auditorium, Dr. A.P.J. Abdul Kalam Academic Complex, on 07 August 2026. During the seminar, she shared key insights from her participation in the ASEE Annual Conference & Exposition 2026, held in Charlotte, USA, from 21–24 June 2026, where she presented research papers, 1. Implementation Challenges & Effectiveness of Problem-Based Engineering Learning: Insights from Engineering Faculty and 2. Enhancing Engineering Students' Critical Thinking and Creativity through Prototype-Based and Social Media-Integrated Learning.



POSH (PREVENTION OF SEXUAL HARASSMENT) AWARENESS PROGRAMME

NITTTR Chennai conducted a POSH (Prevention of Sexual Harassment) Awareness Programme under the guidance and support of Prof. Usha Natesan, Director, NITTTR Chennai. Dr. P. Malliga, ICC Chairperson, delivered the Welcome Address, setting the context and highlighting the importance of awareness, responsibility and a safe, respectful environment on 21.08.2026. The programme featured an interactive and engaging session by Dr. Swathi Praveen, PENN, who sensitised participants on key aspects of POSH, prevention, awareness and the role of individuals in fostering a safe and inclusive environment.



PROFESSIONAL DEVELOPMENT PROGRAMMES

INDUCTION TRAINING PROGRAMME

NITTTR Chennai conducted a Professional Development Programme on “Induction Training Programme” from 03.08.2026 to 07.08.2026 for the faculty members of RajaRajeswari College of Engineering, Bengaluru, Karnataka, in contact mode, coordinated by Er. M. Sutaarson and Er. V. Sivakumar.



TEACHING BEYOND CHALK & TALK: AI-ASSISTED PEDAGOGY AND OBE PRACTICES FOR THE MODERN ENGINEERING CLASSROOM (PHASE-II)

NITTTR Chennai conducted a Professional Development Programme on “Teaching Beyond Chalk & Talk: AI-Assisted Pedagogy and OBE Practices for the Modern Engineering Classroom (Phase-II)” from 05.08.2026 to 07.08.2026 for the faculty members of Mahendra Engineering College, Namakkal, Tamil Nadu, in contact mode, coordinated by Dr. V. Shanmuganeethi and Dr. G. Janardhanan.



REFRESHER COURSE ON DATA ANALYSIS USING MS EXCEL FOR AUDITORS

NITTTR Chennai conducted a Professional Development Programme on “Refresher Course on Data Analysis Using MS Excel for Auditors” from 03.08.2026 to 07.08.2026 for the auditors of the Director General of Audit, Nandanam, Chennai, in contact mode. The programme was coordinated by Dr. P. Jakulin Divya Mary and Shri M. Ramesh.



VALEDICTORY ADDRESS

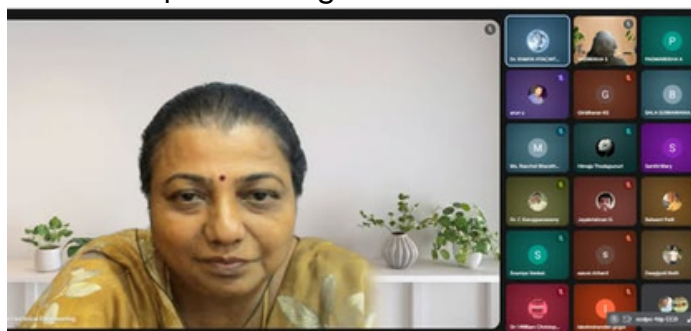
Dr. M. Seenuvasan, Professor (Department of Education) & Dean (Training), NITTTR Chennai, delivered the valedictory address to the participants of the Professional Development Programme on “Refresher Course on Data Analysis Using MS Excel for Auditors” in contact mode on 07.08.2026.



VALEDICTORY ADDRESS

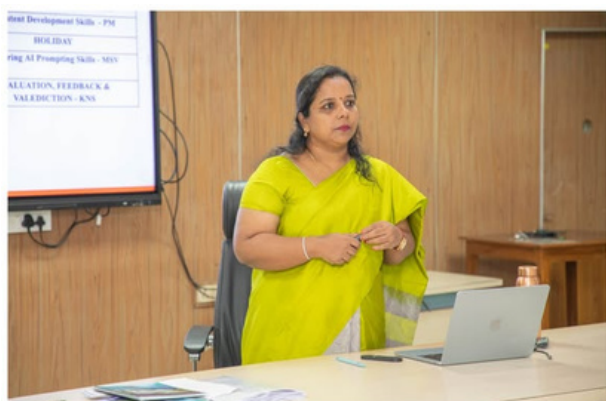
Dr. G. A. Rathy, Professor (Department of Electrical and Electronics Engineering) and Head (Department of Education), NITTTR Chennai, delivered the valedictory address to the participants of the following online Professional Development Programmes on 07.08.2026.

1. Reliability Based Design of Bituminous Pavement
2. Machine Learning for Electrical and Electronics Applications
3. AI in Manufacturing
4. Assessment Excellence for Effective Implementation of OBE



INDUSTRIAL TRAINING PROGRAMME FOR ENGLISH TEACHERS

NITTTR Chennai conducted a Professional Development Programme on “Industrial Training Programme for English Teachers” from 10.08.2026 to 28.08.2026 for faculty of relevant disciplines in contact mode. The programme was coordinated by Dr. Shoba. K. N.



OUTCOME-BASED EDUCATION AND GAPC 4.0

NITTTR Chennai conducted a Professional Development Programme on “Outcome-Based Education and GAPC 4.0” from 10.08.2026 to 14.08.2026 for faculty of all disciplines, in contact mode. The programme was coordinated by Dr. G. Janardhanan



VALEDICTORY ADDRESS

Dr. G. Janardhanan, Professor, Department of Civil Engineering, NITTTR Chennai, delivered the valedictory address to the participants of the Professional Development Programme on “Outcome Based Education and GAPC 4.0” in contact mode on 14.08.2026.



VALEDICTORY ADDRESS

Dr. P. Malliga, Professor & Head, Department of Computer Science and Engineering, NITTTR Chennai, delivered the valedictory address to the participants of the following online Professional Development Programmes on 14.08.2026.

1. AI Fundamentals and Python for Beginners
2. Generative AI Essentials – Core Mechanisms & Tooling
3. Foundations of Artificial Intelligence and Search Techniques
4. Digital Pedagogy for Effective Teaching and Learning
5. Modern Simulation Tools in Electrical and Electronics Engineering
6. Nanotechnology & Applications
7. Sustainability, Social Responsibility and Entrepreneurship in HEIs
8. Outcome Centric Pedagogy



TECHNOLOGY INTEGRATION IN TEACHING AND LEARNING

NITTTRC Extension Centre, Vijayawada, conducted a Professional Development Programme on “Technology Integration in Teaching and Learning” from 10.08.2026 to 14.08.2026 for faculty of all disciplines at Government Polytechnic, Proddatur, Andhra Pradesh, in contact mode. The programme was coordinated by Dr. A. Vinod Kumar.



VALEDICTORY ADDRESS

NITTTR Chennai successfully conducted the 12-week Certificate Programme on 3D Printing and Additive Manufacturing for the warriors of Indian Army, Navy and Airforce funded by the Directorate General Resettlement (DGR), New Delhi, from 25th May to 14th August 2026 in collaboration with Metiskill Global Solutions, Bengaluru. This is the first-of-its-kind programme in Tamil Nadu specifically designed for Junior Commissioned Officers (JCOs) and Other Ranks (ORs) of the Indian Armed Forces.

The Valedictory Function was held on 14th August 2026, where Prof. Usha Natesan, Director, NITTTR Chennai, delivered the Valedictory Address. Col. Hari Krishnan S, SQAQ, DGQA, Chennai, graced the occasion as the Chief Guest and addressed the gathering. The Special Address was delivered by Mr. Sunder V. Rao, Managing Director, Metiskill Global Solutions, Bengaluru.

The DGR programmes were conceptualised and developed by Dr. K. S. Giridharan, Professor, DRED and SPOC NITTTR – DGR in consultation with DGR and the current programme is academically coordinated by Dr. E. Balasubramanian, Professor, Department of Mechanical Engineering, NITTTR Chennai.



INDOOR AUTONOMOUS VEHICLES

NITTTR Chennai conducted a Professional Development Programme on “Indoor Autonomous Vehicles” from 17.08.2026 to 21.08.2026 for faculty in relevant disciplines, industry professionals, and research scholars, in contact mode. The programme was coordinated by Dr. G. A. Rathy.



OBE & ACCREDITATION-GAPC 4.0 (PHASE-I)

NITTTR Chennai conducted a Professional Development Programme on “OBE & Accreditation-GAPC 4.0 (Phase-I)” from 17.08.2026 to 19.08.2026 for the faculty members of Ahalia School of Engineering and Technology, Palakkad, Kerala, in contact mode. The programme was coordinated by Dr. G. Janardhanan and Dr. V. Shanmuganeethi.



AI TOOLS FOR EFFECTIVE LEARNING

NITTTRC Extension Centre, Bangalore, conducted a Professional Development Programme on “AI Tools for Effective Learning” from 17.08.2026 to 21.08.2026 for faculty in all disciplines in contact mode. The programme was coordinated by Er. V. Sivakumar.



FUTURE READY EDUCATORS: AI & ICT

NITTTR Chennai conducted a Professional Development Programme on “Future Ready Educators: AI & ICT” from 17.08.2026 to 21.08.2026 for the faculty members of Guru Nanak College, Chennai, Tamil Nadu, in contact mode.

The programme was coordinated by Dr. M. Seenuvasan.



VALEDICTORY ADDRESS

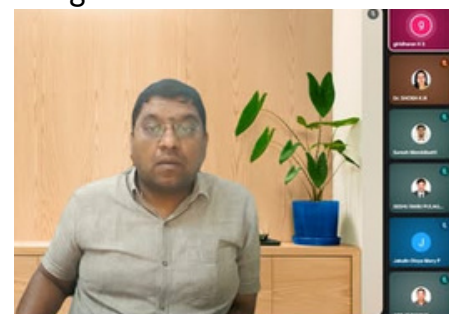
Dr. G. A. Rathy, Professor (Department of Electrical and Electronics Engineering) & Head (Department of Education), NITTTR Chennai, delivered the valedictory address to the participants of the Professional Development Programme on “Indoor Autonomous Vehicles” in contact mode on 21.08.2026.



VALEDICTORY ADDRESS

Dr. G. Janardhanan, Professor, Department of Civil Engineering, NITTTR Chennai, delivered the valedictory address to the participants of the following online Professional Development Programmes on 21.08.2026.

1. Geotechnical Engineering for Infrastructure
2. Data Mining for Business and Research Analytics
3. Computer Networks & Cyber Security
4. Foundations of Curriculum Design in Higher Education
5. Mental Health, Stress & Wellness Management
6. Innovation in Question Paper Design and Student Assessment in the OBE Era
7. Designing Collaborative Learning Through Video Pedagogy
8. Wireless Communication Technologies and Systems
9. Advances in Mechatronics for Automation and Industry 4.0
10. Hospital & Health Systems Management
11. Startup and Incubation: From Ideation to Scale-Up



GRADUATE ATTRIBUTES AND PROFESSIONAL COMPETENCIES VERSION 4.0 (NEW SAR FORMAT) AND OUTCOME BASED EDUCATION (PHASE-II)

NITTTR Chennai conducted a Professional Development Programme on “Graduate Attributes and Professional Competencies Version 4.0 (New SAR Format) and Outcome Based Education (Phase-II)” from 24.08.2026 to 25.08.2026 for the faculty members of Knowledge Institute of Technology, Kakapalayam, Salem, Tamil Nadu, in contact mode. The programme was coordinated by Dr. G. Janardhanan and Dr. V. Shanmuganeethi.



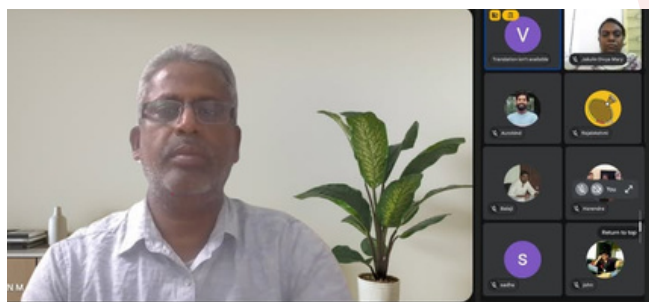
VALEDICTORY ADDRESS

Dr. S. Sasirekha, Associate Professor (Department of Computer Science and Engineering) & Associate Dean (Training), NITTTR Chennai, delivered the valedictory address to the participants of the Professional Development Programme on “Industrial Training Programme for English Teachers” in contact mode on 28.08.2026.



VALEDICTORY ADDRESS

Dr. M. Seenuvasan, Professor (Department of Education) & Dean (Training), NITTTR Chennai, delivered the valedictory address to the participants of the online Professional Development Programme on “Efficient Office Administration and Procurement Procedures with GFR Guidelines” on 29.08.2026



ITEC PROGRAMMES

EMERGING TRENDS IN MULTIMEDIA CONTENT CREATION WITH AI AND IMMERSIVE TECHNOLOGIES

Prof. Usha Natesan, Director, NITTTR Chennai, India, delivered the inaugural address to the international participants of the ITEC Programme titled “Emerging Trends in Multimedia Content Creation with AI and Immersive Technologies” at NITTTR Chennai on 12.08.2026.



VALEDICTORY ADDRESS

Prof. Usha Natesan, Director, NITTTR Chennai, India, delivered the valedictory address to the international participants of the ITEC Programme titled “Emerging Trends in Multimedia Content Creation with AI and Immersive Technologies” at NITTTR Chennai on 25.08.2026.



MEMORANDUM OF UNDERSTANDING

SS TECH SALEM COMMERCIALS PRIVATE LIMITED

NITTTR Chennai is delighted to announce the signing of a Memorandum of Understanding (MoU) with SS Tech Salem Commercials Private Limited, with the shared objective of strengthening industry-academia collaboration and fostering opportunities for mutual growth and development.



IN CAMPUS EVENTS

NASHA MUKT YUVA FOR VIKSIT BHARAT CAMPAIGN

NITTTR Chennai actively participated in the Nasha Mukta Yuva for Viksit Bharat Campaign on 02 August 2026. Students, faculty, and staff came together to listen to the inspiring address of the Hon'ble Prime Minister and took the pledge to contribute towards a drug-free, healthy, and progressive India.



SESSION HIGHLIGHTING THE IMPORTANCE OF INSURANCE, WITH A SPECIAL FOCUS ON POSTAL LIFE INSURANCE (PLI)

NITTTR Chennai organized an enlightening sensitization session highlighting the importance of insurance, with a special focus on Postal Life Insurance (PLI).

The expert team from India Post – PLI interacted with our faculty and staff, sharing valuable insights on the benefits and significance of Postal Life Insurance. The session helped participants understand how PLI contributes to financial security and long-term well-being. This initiative reflects NITTTR Chennai's commitment to fostering awareness and empowering its community with knowledge that supports responsible decision-making.



80TH INDEPENDENCE DAY CELEBRATION

On 15th August 2026, NITTTR Chennai proudly celebrated the 80th Independence Day of India. Our Director, Prof. Dr. Usha Natesan, hoisted the National Flag. The event witnessed vibrant participation from:

- Faculty and staff members
- International delegates from 19 countries
- Industrial Training Participants from Andhra Pradesh
- Students, scholars, and professionals

The celebration began with the National Song and Flag Hoisting, followed by the National Anthem and a spirited Guard of Honour. In her Independence Day speech, Prof. Usha Natesan underscored NITTTR Chennai's contribution to creating a dynamic technical teacher ecosystem that supports the vision of Viksit Bharat. She also stressed the need for transformative learning to prepare institutions, teachers, and students for the opportunities and challenges of Artificial Intelligence.



DISCUSSION WITH NAVAL INSTITUTE OF EDUCATIONAL AND TRAINING TECHNOLOGY

On 12.08.2026, NITTTR Chennai hosted a delegation from the Naval Institute of Educational and Training Technology (NIETT), Kochi, to explore collaboration in training, research, and AI-related certification for Naval Educational officers. Looking forward to build a strong and productive partnership ahead.



DISCUSSION WITH ADG, DIRECTORATE GENERAL OF RESETTLEMENT (DGR), SOUTH ZONE

It was a privilege to welcome Brig. Ranjan Keron, ADG, Directorate General of Resettlement (DGR), South Zone, to NITTTR Chennai. During the visit Prof. Dr. Usha Natesan, Director, NITTTR Chennai, welcomed Brig. Ranjan Keron and discussed avenues for strengthening collaboration between DGR and the Institute. The discussions focused on expanding capacity building, skill development, and professional development initiatives for defence personnel.

NITTTR Chennai is currently offering a three month resettlement training programme in 3D Printing and Additive Manufacturing, exclusively designed for Junior Commissioned Officers (JCOs) and Other Ranks (ORs), equipping them with industry-relevant skills for successful post-retirement careers. The interaction reaffirmed the shared commitment of DGR and NITTTR Chennai towards empowering defence personnel through education, skilling, and lifelong learning.

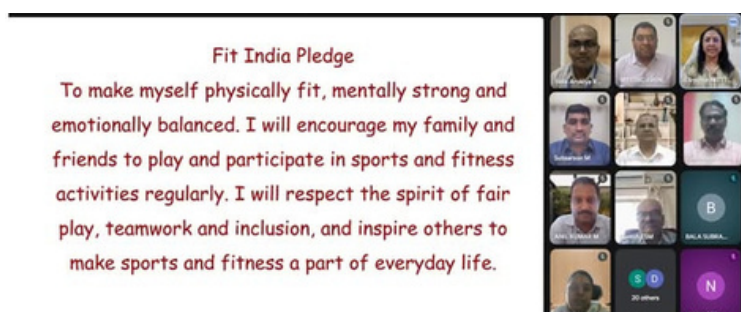


NATIONAL SPORTS DAY 2026

NITTTR Chennai observed National Sports Day 2026 in honour of Major Dhyan Chand, whose life exemplified discipline, dedication, teamwork and excellence.

Prof. Dr. Usha Natesan, Director, NITTTR Chennai, administered the Fit India Pledge, which was undertaken by the faculty members and staff of the Institute. The pledge reaffirmed their commitment to making physical fitness, mental strength and emotional well-being part of everyday life. As part of the celebration, competitions in carrom, chess, badminton and table tennis were conducted for students, faculty members, staff and project staff.

The event conveyed a powerful message: sport is not merely about winning medals; it builds healthy individuals, confident minds, strong teams and a stronger nation.



INDUCTION PROGRAMME FOR THE 2026-27 BATCH

The Induction Programme for the 2026-27 Batch of Postgraduate and Doctoral Programmes at NITTTR Chennai was conducted on 29.08.2026. We welcome our new cohort to a brand-new academic start. The Director, Prof. Dr. Usha Natesan, delivered the Inaugural Address and initiated the academic programmes!



CALL FOR PAPERS FOR JTVE

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
Institution Deemed to be University under Distinct Category
A Centrally Funded Technical Institute, Ministry of Education, Govt. of India
Taramani, Chennai - 600 113.

Journal of Technical and Vocational Education
A Half-yearly Online Journal from NITTTR Chennai

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CALL FOR PAPERS ISSN: 0971 - 8508

- Emerging Areas in Engineering Research
- Innovative Practices in Engineering Education and Management
- Professional Development Practices in Teacher Education
- Transformational Processes and Policies in Technical Education

Send your papers to: jtve@nitttrc.edu.in

Important Dates:
Submission of Papers
November 15, 2026
Journal Issue: January 2027

No Article Processing Charges

Scan to know more

<https://www.nitttrc.ac.in/JTVE/index.php>

The Call for Papers for JTVE is now live! Submit original manuscripts before November 15, 2026

PHASE-II ADMISSIONS FOR PG PROGRAMMES

Phase II Admissions for PG Programmes – Walk-in on 01.09.2026 @ NITTTR Chennai
Link to Register: <https://forms.gle/iT7FMVWiDnX4DT2W6>

NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH
INSTITUTION DEEMED TO BE UNIVERSITY UNDER DISTINCT CATEGORY
A CENTRALLY FUNDED TECHNICAL INSTITUTE
MINISTRY OF EDUCATION, GOVT. OF INDIA, CHENNAI-600113

PHASE II - ADMISSIONS OPEN WALK-IN

POSTGRADUATE PROGRAMMES - M.TECH. / MBA
MODE: REGULAR/WORKING PROFESSIONALS

1. M.TECH. ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
2. M.TECH. AUGMENTED AND VIRTUAL REALITY
3. M.TECH. ENGINEERING EDUCATION
4. M.TECH. INFRASTRUCTURE ENGINEERING & MANAGEMENT
5. M.TECH. MECHATRONICS
6. M.TECH. POWER ELECTRONICS & DRIVES
7. M.TECH. VLSI DESIGN & EMBEDDED SYSTEMS
8. MBA BUSINESS ANALYTICS

Required Documents (Originals + 1 Photocopy)

- Photo ID & 2 Passport Photos
- 10th, 12th, and Qualifying Degree Marksheet/Certificates
- Category Certificate (if applicable)
- No Objection Certificate (NOC) for Working Professionals

Registration Fee

- ₹1,000 for General/OBC/EWS Male candidates
- ₹500 for Females, SC/ST, PwD, and Transgender candidates
- Paid via SBI Collect on-site after document verification

WALK-IN DATE
Tuesday, 01 September 2026

Limited seats available. Secure your place and become part of a community dedicated to learning and success.

Scan to Register

FOR MORE DETAILS
Email: admission@nitttrc.edu.in
Phone: 044 22545446
www.nitttrc.ac.in

SWAYAM MOOCS FROM NITTTR CHENNAI

NITTTR Chennai is a National Coordinator for SWAYAM-MOOC, offering unique online courses (Teacher Education). These courses cover various fields, including Education, Engineering and Technology, Educational Media and Technology, Entrepreneurship and Innovation, Research and Intellectual Property Rights, Leadership Development and Institutional Management. The last date of Enrollment is 31 August 2026. Register now for the July 2026 semester courses: <https://swayam.gov.in/NITTTR>



Join the Course

EMPLOYABILITY SKILLS

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

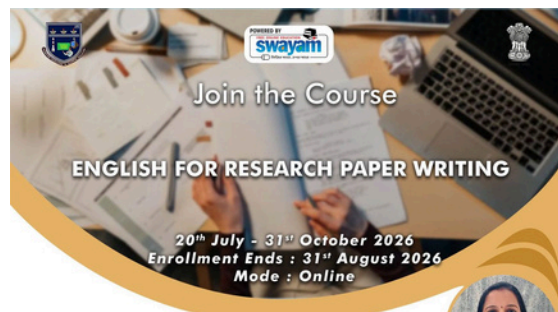
- Foundations of employability and workplace readiness.
- Communication etiquette, presentations, and interpersonal skills.
- Critical thinking, problem-solving, teamwork, and leadership.
- Digital literacy, workplace tools, ethics, and professional behaviour.
- Career readiness: résumé building, interviews, and workplace preparation.

Coordinated By
Dr. P.Jakulin Divya Mary
Assistant Professor,
NITTTR Chennai

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Join the Course

ENGLISH FOR RESEARCH PAPER WRITING

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Foundations of Academic English in Research
- Effective Writing Style for Research Papers
- Advanced Reading Skills for Researchers
- Research Vocabulary Development
- Grammar Refinement for Research Writing
- Mastery in Revising, Editing, And Proofreading
- Presentation Language Skills
- Technology and Language for Research

Coordinated By
Dr. K. N. Shoba
Associate Professor, NITTTR Chennai

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Join the Course

GUIDANCE AND COUNSELLING

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Overview of Guidance and Counselling
- Counselling Approaches, Theories and techniques
- Ethics, Assessment, and Institutional Practices
- Common Issues and Interventions in Institutional Settings

Coordinated By
Dr. S. Renukadevi Professor, NITTTR Chennai
Er. M. Sutaarson Assistant Professor, NITTTR Chennai

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Join the Course

CREATING AND TEACHING WITH OER: AN AI-DRIVEN APPROACH

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- OER basics, Creative Commons licensing, UNESCO and Indian initiatives.
- Discovering and attributing OER using TASL; licensing compliance.
- Localizing and remixing OER; accessibility and inclusive design.
- Four-Quadrant course planning: video, e-content, discussion, assessment; storyboarding; AI-enhanced engagement.
- Publishing, hosting, maintenance, and measuring impact with analytics for sustainability.

Coordinated By
Mr. A.P. Felix Arokiya Raj
Assistant Professor, NITTTR Chennai

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Join the Course

**DIGITAL PEDAGOGY MEETS DATA:
VISUALIZATION SKILLS FOR EDUCATORS**

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Foundations of Digital Pedagogy and AI-Enhanced Teaching
- Basics of Data Visualization and Data-Driven Insights
- Applications of Data Visualization in Educational Institutions and Classrooms
- Benefits of Visualization for Educators and Smarter Teaching Approaches
- Tools and Techniques for Creating Educational Visualizations
- Future Trends in Visual, Digital, and Data-Driven Teaching
- Integrating Visualization into Teaching Practice and Responsible Data Use
- Data-Enhanced Teaching Strategies and Professional Growth



Coordinated By
Dr. S. Sasirekha
Associate Professor, NITTTR Chennai



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E-CONTENT DEVELOPMENT

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Gen Z Learners and E-Learning
- Instructional Design Models
- Multimedia Principles and Content Authoring Tools
- Presentation Tools
- Graphics and Animation Tools
- Audio and Podcasting Tools
- Online Video Creation
- FOSS and Online Tools for Engagement



Coordinated By
Dr. P. Malliga
Professor, NITTTR Chennai



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Join the Course

**MENTAL HEALTH OF STUDENTS IN HIGHER EDUCATION:
FOSTERING RESILIENCE AND
ENHANCING WELL-BEING**

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Overview of Mental Health in Higher Education
- Physical and Cognitive Well Being
- Academic Stress and Time Management
- Digital Well-being
- Emotional and Social Well Being
- Resilience, Coping and Counselling for Maladaptive Behaviours
- Support Systems and Campus resources
- Culture of Well-being in Institutions



Coordinated By
Dr. S. Renukadevi
Professor, NITTTR Chennai



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Join the Course

**MENTORING AND COUNSELLING SKILLS
FOR TEACHERS**

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Learners and Teachers
- Mentoring Basics
- Mentoring Stages & Areas
- Mentoring Strategies
- Counselling Basics
- Counselling Skills
- Counselling Strategies & Areas
- Self care for Teachers and Summary

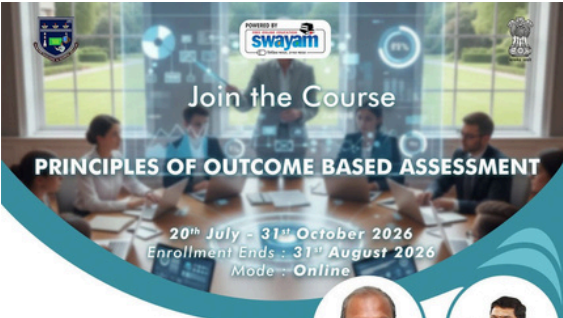


Coordinated By
Dr. S. Renukadevi
Professor, NITTTR Chennai



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For Learning **3 Credits**

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Join the Course

PRINCIPLES OF OUTCOME BASED ASSESSMENT

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Introduction to OBE: philosophy, evolution, and crafting clear learning outcomes mapped to courses and programs.
- Assessment strategies: direct/indirect methods, performance types, achievement tests, and Table of Specifications.
- Performance assessment: checklists, rating scales, holistic/analytic rubrics, and criteria preparation.
- Digital assessment tools: benefits, free/FOSS tools for formative, summative, and performance assessments.
- Portfolio assessment: e-portfolios, activity tracking, attainment measurement, and continuous quality improvement.

Coordinated By
Dr. K.S.A. Dinesh Kumar NITTTR Chennai
Dr. G. Janardhanan NITTTR Chennai
Dr. V. Shanmuganeethi NITTTR Chennai

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Join the Course

STRATEGIC CLASSROOM MANAGEMENT

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Foundations of positive classroom culture, student engagement, and motivational strategies.
- Gamification techniques and behavior management for effective conflict resolution.
- AI tools, smart classroom practices, and technology-enhanced learning environments.
- Inclusive classroom strategies supporting diverse learner needs.
- Strategic classroom leadership and future-ready teaching frameworks.

Coordinated By
Dr. V. Vandhana Devi Professor, NITTTR Chennai

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Join the Course

STUDENT PSYCHOLOGY

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Teaching Learning Process
- Student Characteristics, Types and Problems
- Psychological Tests and Inventories
- Student Motivation
- Physical and Cognitive Development
- Emotional and Social Development
- Neuro-Linguistic Programming
- Counselling Skills and Summary

Coordinated By
Dr. S. Renukadevi Professor, NITTTR Chennai

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TEACHING & LEARNING (TL) PRACTICES FOR PYTHON PROGRAMMING

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Structured Instruction
- Introduction to Programming and Python
- Overview lectures on programming concepts and Python fundamentals
- Data Structures
- Functions and Modules
- Coding exercises to create and use functions and modules
- Importance and Principles of Data Visualization
- Explanation of data visualization concepts and libraries through lectures

Coordinated By
Dr. V. Shanmuganeethi NITTTR Chennai

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**VIRTUAL SIMULATION TOOLS BASED
INTERACTIVE TEACHING AND LEARNING STRATEGY**

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Teaching Learning Process and Instructional Strategies
- Physics Education Technology (PhET)
- MATLAB & MATLAB Simulink
- MultiSIM & LabVIEW
- Virtual Labs project, an initiative of Ministry of Education (MoE), Government of India
- Tinker CAD
- Electronic design automation (EDA) Playground & ANSYS
- Augmented Reality, Virtual Reality, Mixed Reality, Extended Reality, Meta Verse, 360 degree Video simulations



Coordinated By
Dr. G. Kulanthaivel
Professor, NITTTR Chennai



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Join the Course

**3C's - CLEAN, CAPTURE AND CONVERT
(APPROACH TOWARDS SUSTAINABILITY)**

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Sustainability basics and the energy-environment connection.
- 3C's framework: Clean, Capture, Convert.
- Clean technologies: renewable energy, pollution control, and waste minimization.
- Carbon capture, utilization, circular carbon economy, and energy conversion systems.
- Waste-to-energy, integrated 3C applications, LCA, techno-economic analysis, policies, and future sustainability trends.



Coordinated By
Dr. M. Seenivasan
Professor, NITTTR Chennai



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Join the Course

**CIRCULAR ECONOMY AND
WASTE VALORIZATION**

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Introduces the shift from linear to circular economy with focus on waste valorization.
- Covers technologies, policies, and business models for waste-to-value conversion.
- Explains major waste treatment methods and resource-recovery practices.
- Encourages innovation, entrepreneurship, and national initiatives like Atmanirbhar Bharat.
- Builds interdisciplinary skills through hands-on, real-world circular-economy projects.



Coordinated By
Dr. M. Anil Kumar
Associate Professor, NITTTR Chennai



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Join the Course

**HOSPITAL AND HEALTH
SYSTEMS MANAGEMENT**

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Health Systems Overview
- Hospital Planning and Design
- Hospital Operations Management
- Quality Management and Patient Safety
- Human Resource Management in Healthcare
- Healthcare Finance and Budgeting
- Materials and Supply Chain Management
- Health Information Systems and Digital Health



Coordinated By
Dr. P. Jakulin Divya Mary
Assistant Professor,
NITTTR Chennai



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INNOVATION DRIVEN ENTREPRENEURSHIP

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Introduction to Innovation in Entrepreneurship
- Idea Generation and Validation
- Design Thinking in Entrepreneurship
- Business Model Innovation
- Technology and Innovation
- Funding Innovation
- Entrepreneurial Mindset, Leadership & Intellectual Property
- Scaling and Growth Strategies, Sustainability & Social Innovation



Coordinated By
Dr. K. S. Girdharan
Professor, NITTTR Chennai



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Join the Course

MACHINE LEARNING TECHNIQUES FOR SOCIAL MEDIA DATA ANALYTICS

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Basics of social media platforms, data types, and ML roles in analytics.
- ML foundations: classification, regression, clustering, topic modeling, and NLP.
- Applications: sentiment analysis, fake news detection, trend prediction, and influencer analysis.
- Tools: Python, Scikit-learn, NLP libraries with practical case studies.
- Ethics, privacy, and future AI trends.



Coordinated By
Dr. S.V. Kogilavani
Professor, NITTTR Chennai



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Join the Course

ACADEMIC LEADERSHIP IN CROSS CULTURAL CONTEXT OF HIGHER EDUCATIONAL INSTITUTIONS

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Leadership Qualities
- Transformational Leadership
- Excellence through Strategic Planning
- Building world class Institutions
- Quality Assurance, Accreditation and Ranking



Coordinated By
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Professor, NITTTR Chennai



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Join the Course

NATIONAL EDUCATION POLICY AND INSTITUTIONAL BUILDING

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Understanding of NEP 2020
- Application of NEP 2020 in Institutional Contexts
- Curricular and Pedagogical Reforms
- Technology Integration and Blended Learning
- Institutional Leadership and Governance
- Research and Innovation in Education
- Assessment and Continuous Evaluation
- Monitoring and Evaluation of Institutional Development
- Ethical Considerations in Institutional Development



Coordinated By
Dr. G. Janardhanan
Professor, NITTTR Chennai



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Join the Course

QUALITY ASSURANCE THROUGH NAAC ACCREDITATION PROCESS

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Introduction to Quality Assurance and Accreditation
- Curricular Aspects
- Teaching & Learning, Evaluation
- Research, Consultancy, and Extensions
- Infrastructure and Learning Resources
- Student Support and Progression
- Governance, Leadership, and Management
- Institutional Values & Best Practices



Coordinated By
Dr. E.S.M. Suresh
Professor, NITTTR Chennai



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Join the Course

SWACHHATA CAMPUS - CLEAN, GREEN, AND SUSTAINABLE TECHNOLOGY

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Introduction to Environmental Issues and Sustainable Development
- Green Campus Initiatives
- Renewable Energy
- Sustainable Construction and Green Building
- Health and Safety

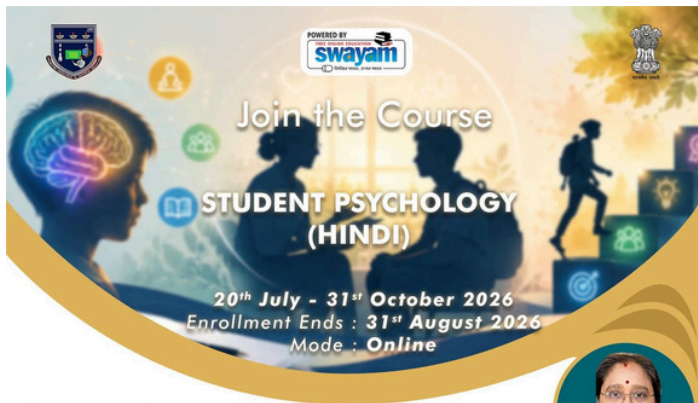


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Professor, NITTTR Chennai



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Join the Course

STUDENT PSYCHOLOGY (HINDI)

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- शिक्षण-अधिगम प्रक्रिया
- छात्र विशेषताएँ, प्रकार और समस्याएँ
- मनोवैज्ञानिक परीक्षण और प्रश्नावलियाँ
- छात्र अभिप्रेरणा
- शारीरिक और संज्ञानात्मक विकास
- भावनात्मक और सामाजिक विकास
- तैलिका-भाषाई प्रोग्रामिंग
- परामर्श कौशल और सारांश



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Professor, NITTTR Chennai



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Join the Course

2I - (INDUSTRY INSTITUTE) COLLABORATION FOR ACADEMIC EXCELLENCE OF HEIs

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Overview of Industry-Institute Collaboration, institutional growth, sustainability, and global frameworks.
- Employability through internships, multi-skill development, industrial visits, and mentorship.
- Entrepreneurship, design thinking, startup incubation, and industry-supported infrastructure.
- Faculty development, research, consultancy, and MoU frameworks.
- Curriculum alignment with NEP 2020, credit systems, and accreditation impact.



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Professor, NITTTR Chennai



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Join the Course

3D MODELLING AND RENDERING FOR VIRTUAL REALITY

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- 3D Modeling & VR Basics
3D concepts, transformations, Blender interface, object creation.
- Viewing, Geometry & Modeling
Camera pipeline, projections, mesh editing, modifiers, topology, sculpting.
- Materials, Lighting & Rendering
PBR shaders, UV mapping, texture painting, lighting types, HDRI.
- Environment, Animation & Physics
Level design, keyframes, rigging, controllers, collisions, forces.
- AI, VR Integration & Capstone
AI logic, rendering optimization, VR setup, model import, full VR mini-project deployment.

Coordinated By
Dr. B. Yegameena
Professor, NITTTR Chennai

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Join the Course

APPLICATION IN POWER ELECTRONICS ENGINEERING

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Power Electronic Devices Power electronic devices-Power diodes
- Power transistor
- Phase Controlled Rectifiers Phase control
- DC-DC Converters- Non-Isolated- Buck, Boost, Buck- Boost and
- Cuk converters
- Introduction to self-commutated switches
- Multilevel inverters: diode-clamped, flying capacitor, and cascaded
- types - comparison, PWM techniques, and applications.

Coordinated By
Dr. G.A. Rathy
Professor, NITTTR Chennai

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Join the Course

AUGMENTED & VIRTUAL REALITY – FOUNDATIONS AND APPLICATIONS

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Covers fundamentals, evolution, trends, and career paths in XR (AR/VR/MR).
- Introduces XR hardware, display devices, and development tools like Unity.
- Explains HCI principles—perception, navigation, gestures, and tracking.
- Includes 3D modeling basics, asset creation, and optimization.
- Teaches AR/VR development workflows, scripting basics, and building immersive experiences

Coordinated By
Dr. P. Malliga
Professor, NITTTR Chennai

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Join the Course

DATA STORYTELLING & DASHBOARDS WITH POWER BI & PYTHON

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Fundamentals of data storytelling, visualization principles, and introduction to Power BI and Python.
- Data preparation, cleaning, and visualization using Pandas, Matplotlib, and Seaborn.
- Building interactive Power BI dashboards with filters, slicers, DAX, and AI visuals.
- Integrating Python with Power BI for custom visuals and automated data processing.
- Dashboard design best practices, audience-focused storytelling, and real-world case studies.

Coordinated By
Dr. T. Subha
Associate Professor, NITTTR Chennai

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Join the Course

DESIGN THINKING FOR EDUCATORS

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Design Thinking: Mindsets and Processes
- Empathize Phase
- Define Phase
- Ideate Phase
- Prototype Phase
- Test Phase
- Implement Phase
- Reflect Phase

Coordinated By
Dr. S. Saravana Perumaal
Associate Professor, NITTTR Chennai



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ELECTRIC VEHICLE TECHNOLOGY FOR ACADEMIA

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Electric Vehicle Components and Architecture
- Embedded Controllers for EV
- Power Electronics Converters for EV
- Electrical Motors for EV
- Battery Management Systems (BMS) for EV
- Modelling and Simulation of EV
- Electric Vehicle Charging
- Advanced Driver Assistant Systems and Electric Vehicle Standards

Coordinated By
Dr. G.A. Rathy Professor, NITTTR Chennai
Dr. R. Suja Mani Malar Associate Professor, NITTTR Chennai



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ENVIRONMENTAL SCIENCE AND ENGINEERING

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Basics of environmental science, resources, ecosystems, and biodiversity.
- Air, water, soil, noise, thermal, and marine pollution.
- Climate change, global issues, and sustainability.
- Waste management, biotechnology, EIA, and policies.
- EMS, green technologies, and future environmental trends.

Coordinated By
Dr. M. Anil Kumar Associate Professor, NITTTR Chennai
Dr. M. Seenivasan Professor, NITTTR Chennai



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Join the Course

CLIMATE CHANGE AND DISASTER RISK MANAGEMENT

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Climate Change Basics, GHGs, Evidence, and Global/IPCC Projections
- Impacts on agriculture, water, biodiversity, health, and vulnerability studies
- Disaster types, risk assessment, and disaster-risk reduction frameworks
- Climate-disaster links: floods, droughts, heatwaves, and key global/national policies
- Adaptation, mitigation, renewable energy, community resilience, and early-warning systems

Coordinated By
Dr. Rakesh Wats Professor, NITTTR Chandigarh
Dr. G. Janardhanan Professor, NITTTR Chennai



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Join the Course

DIGITAL TWINS AND IOT APPLICATIONS IN CIVIL ENGINEERING

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Introduction to Digital Twins in Civil Engineering
- Fundamentals of IoT Systems
- Data Acquisition and Sensor Technologies for Infrastructure
- Cloud, Edge Computing, and Data Management
- BIM-Digital Twin Integration
- 3D/4D/5D Modeling and Geospatial Integration
- Structural Health Monitoring (SHM) Systems
- Predictive Maintenance and Asset Management
- Digital Twins for Buildings and Smart Facilities
- Digital Twins for Bridges and Transportation Infrastructure
- Digital Twins for Water, Utilities, and Smart Cities
- Digital Twins in Construction Management
- Data Analytics, AI/ML for Digital Twins
- Standards, Interoperability, and Cybersecurity
- Comparative Analysis: National vs International Practices

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ETHICAL AND RESPONSIBLE AI GOVERNANCE

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Foundations of AI and Responsible AI
- Ethics, Human Values, and AI
- AI Governance Frameworks and Regulations
- Building Trustworthy AI: Transparency, Explainability, and Accountability
- Privacy, Security, and AI Risk Management
- Responsible Generative AI, Large Language Models, and AI Agents
- AI Governance in Practice: Applications and Case Studies
- Building a Responsible AI Future

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Join the Course

INTEGRATION OF ARTIFICIAL INTELLIGENCE IN EDUCATIONAL PRACTICES

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Introduction to Artificial Intelligence in Education
- Enhancing Teaching and Pedagogical Practices with AI
- AI-Driven Student Engagement and Motivation
- Adaptive Learning and Personalized Education
- Transforming Assessment with AI
- Learning Analytics and Insights
- Collaboration and Communication with AI
- Challenges and Future Prospects

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UAV IN ENGINEERING APPLICATIONS

20th July - 31st October 2026
Enrollment Ends : 31st August 2026
Mode : Online

Course Layout

- Introduction, Classifications, Applications and Payloads of UAV
- Aerodynamics and Computational Fluid Dynamic Analysis of UAV
- Design, Assembly, Integration and Testing of Quadcopter
- Industrial and Engineering Applications of UAVS
- Development of Amphibious UAV for water quality monitoring
- SWARM of UAVs for 3D Mapping using Stereo vision system
- Development of Flapping Wing Vehicle (FWV)
- DGCA Rules, Regulation and Future Engineering Application of UAVs

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Join the Course
SMART INDUSTRIAL CONTROL USING PLC AND SCADA TECHNOLOGIES
 20th July - 31st October 2026
 Enrollment Ends : 31st August 2026
 Mode : Online

Course Layout

- Introduction to industrial automation, Allen-Bradley PLC families, hardware architecture, and Studio 5000 programming environment.
- PLC programming fundamentals — ladder logic, timers, counters, data handling, and sequential control techniques.
- Advanced instructions including subroutines, sequencers, shift registers, and structured program development.
- Analog I/O, signal scaling, sensor integration, and PID control for process regulation.
- SCADA architecture, HMI design, alarm management, and PLC-SCADA integrated supervisory control.

Coordinated By
Dr G. A. Rathy
 Professor, NITTTR Chennai

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- **Certificate:** A Certificate of Internship/Completion will be issued upon successful completion of the internship.

How to Apply:

Interested candidates may submit the following:

- Updated résumé/CV
- A brief statement of interest

Applications may be sent to this email address: digi-repo@nitttrc.edu.in on or before 31.08.2026 and the candidates will be contacted for further interaction.



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