



# SWAYAM Courses Offered January 2024



**NITTTR  
CHENNAI**





# Foundation of Teaching Learning and Evaluation



**29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024**

**Enrollment Ends : 29 Feb 2024**


**Mode : Online**


Join the Course

## Resilient Pedagogy

29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024




Coordinated by  
**Dr. Urmila Kar**  
Professor, NITTTR Kolkata  
**Dr. Habiba Hussain**  
Associate Professor, NITTTR Kolkata


### Course Layout

- Learning Principles and Theories
- Learners' Psychology
- Active, Integrative, Experiential, Creative Learning
- Student Engagement

8 WEEKS

2 CREDITS

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## Basic Instructional Methods

29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Prof. Susan S. Mathew**  
Professor, NITTTR Bhopal

### Course Layout

- Overview of Learning and Instruction
- Teacher-Centred Methods
- Instructional Methods for Developing Practical Outcomes
- Student Centred Interactive Methods
- Selecting Instructional Methods using Logical Approach

4 WEEKS




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## Student Assessment and Evaluation

29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. K.S.A. Dinesh Kumar**  
Professor, NITTTR Chennai


### Course Layout

- Introduction to Assessment and Evaluation
- Two-Dimensional Learn – Assess Approach
- Assessment Procedures
- Design of Question Paper
- Performance Assessment
- Establish Characteristics of Assessment
- Item Analysis
- Software Tools for Assessment

8 WEEKS

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## OER for Empowering Teacher

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Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Mr. Felix Arokiyaraj**  
Assistant Professor, NITTTR Chennai

### Course Layout

- OER Basics
- Open Licenses and OER Repositories
- Adopt and Adapt OER
- Create OER

4 WEEKS

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## Fundamental of Outcome Based Curriculum


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Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Prof. Susan S. Mathew**  
Professor, NITTTR Bhopal

### Course Layout

- Introduction to Curriculum Development
- Curriculum Development Process in Engineering Education
- Outcome-Based Curriculum (OBC) in Engineering Education






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## Advanced Instructional Methods


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Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Prof. Asmita A. Khajanchee**  
Professor, NITTTR Bhopal

### Course Layout

- Introduction to Advanced Instructional Methods
- Classroom Based Small Group Methods using Creativity Techniques
- Small Group Methods for Higher Cognitive and Affective Domain
- ICT Based Methods
- Selection of Advanced Instructional Methods



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## Student Psychology

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Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. S. Renukadevi**  
Professor, NITTTR Chennai

### 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






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## Outcome Based Assessment


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Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. K.S.A. Dinesh Kumar**  
Professor, NITTTR Chennai

### Course Layout

- Introduction To Outcome-Based Education
- Assessment Strategies
- Performance Assessment
- Tools for Assessment
- Portfolio Assessment & Attainment



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# Thrust Areas






**29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024**

**Mode : Online**

**Enrollment Ends : 29 Feb 2024**




## Join the Course

# 3D Printing and Design for Educators


29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024



*Coordinated by*  
**Dr. Suresh K Dhameja**  
Professor, NITTTR Bhopal

**Course Layout**

- Additive Manufacturing Introduction and CAD
- Data Preparation for 3D Printing
- 3D Printers and Software
- 3D Printing Materials
- Solid Liquid/Powder based 3D Printing Processes
- Post Processing and Quality of 3D printed components



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# Electric Vehicle Technology for Academia

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Mode : Online  
Enrollment Ends : 29 Feb 2024




*Coordinated by*  
**Dr. Rathy**  
Professor, NITTTR Chennai  
**Dr. Suja Mani Malar**  
Associate Professor, NITTTR Chennai

**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
- Electric Vehicle standards



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# UAV in Engineering Applications

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Mode : Online  
Enrollment Ends : 29 Feb 2024



*Coordinated by*  
**Dr. E. Balasubramanian**  
Associate Professor, NITTTR Chennai

**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
- Case Studies
- Flapping Wing Vehicle
- Regulatory Compliances



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# Internet of Things: Design Concepts and Use Cases

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Mode : Online  
Enrollment Ends : 29 Feb 2024



*Coordinated by*  
**Prof. Maitreyee Dutta**  
Professor, NITTTR Chandigarh

**Course Layout**

- Introduction to IoT
- Communication Protocols
- Arduino
- Arduino-Sensor Practical
- Case Studies



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# PLC and Microcontroller (Instruction Medium: Hindi)

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Mode : Online  
Enrollment Ends : 29 Feb 2024



*Coordinated by*  
**Dr. Ritula Thakur**  
Associate Professor, NITTTR Chandigarh

**Course Layout**

- Introduction to 8051 Microcontroller
- Programming Languages of 8051
- Embedded C Programming of 8051
- 8051 Timers
- Instruction Set of PLC
- PLC programming using Ladder Logic
- Practical on Allen Bradley based Universal PLC Platform



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# Media and Information Literacy






**29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024**

**Mode : Online**

**Enrollment Ends : 29 Feb 2024**



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## Educational Video Production

29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Prof. Maitreyee Dutta**  
Professor, NITTTR Chandigarh

### Course Layout

- Planning and Management of Script Writing
- Storyboard and Video Program Production
- Lighting Techniques and Moods
- Video Camera Techniques
- Graphics and Animation Techniques
- E-content Generation Tools
- Video Editing Techniques






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## Graphics and Animation Development


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Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Er. Shano Solanki**  
Assistant Professor, NITTTR Chandigarh

### Course Layout

- Fundamentals of Graphics Designing
- Image Editing and Enhancement
- Image Conversion
- Paths and Channels
- Overview of Animation Techniques
- Architectural and Character Modelling
- Rigging, Rendering and Publishing
- 3D Modelling



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## ICT in Teaching and Learning

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Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Prof. Ravi K Kapoor**  
Professor, NITTTR Bhopal

### Course Layout

- ICT Enabled Teaching and Learning
- Pedagogical Integration of Appropriate Emerging ICT strategy
- Ethical- Intellectual Property Right
- Legal Issues






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## Learning Management System\_MOODLE


29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. V. Shanmuganeethi**  
Professor, NITTTR Chennai

### Course Layout

- Introduction to Learning Management System (LMS)
- Course Creation and Management
- User Course Resources
- Report Generation



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## Teaching & Learning (TL) Practices for Python Programming

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Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. V. Shanmuganeethi**  
Professor, NITTTR Chennai

**Course Layout**

- Structured Instruction
- Introduction to Programming and Python
- Data Structures
- Learning Activities
- Functions and Modules
- Learning Activities
- Principles of Data Visualization
- Learning Activities

8 WEEKS    3 CREDITS    FREE FOR LEARNERS



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## Virtual Education

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Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Prof. Maitreyee Dutta**  
Professor, NITTTR Chandigarh

**Course Layout**

- Virtual Education – Need, Concept, Features and Challenges
- Virtual Reality and Augmented Reality
- Modern Modes of Instructional Delivery
- Content Development for Virtual Learning
- Managing Virtual Classrooms and Virtual Laboratory
- Continuous Assessment in Virtual Learning
- Student Evaluation and e-Assessment Tools
- Assessment of Extracurricular Activities

8 WEEKS    3 CREDITS    FREE FOR LEARNERS



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## E-content Development

29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. P. Malliga**  
Professor, NITTTR Chennai

**Course Layout**

- E-learning
- E-Content Design
- Content Authoring Tools
- Documentation & Presentation Tools
- Graphics & Animation
- Audio and Podcasting
- Online Video Creation
- Surveys/Polling/Quizzes
- Project Work: Development of E-Content

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## Educational Media

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Mode : Online  
Enrollment Ends : 29 Feb 2024




Coordinated by  
**Dr. Sandip Shivaji Kedar**  
Professor, NITTTR Bhopal


**Course Layout**


- Educational Media – Need, Classification and Planning
- Design and Development of Educational Media
- Media for 21<sup>st</sup> Century Classroom and Laboratory



4 WEEKS    2 CREDITS    FREE FOR LEARNERS



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## Technology Enabled Learning

29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. G. Janardhanan**  
Professor, NITTTR Chennai

**Course Layout**

- Introduction to Teaching into Technology
- Tools & Resources for Creating Technology Based Learning Environment
- Tools & Resources for Creating Learning Resources
- Tool & Resources for Creating Learning Assessment
- Blend /Flipped Classroom & AI in Classroom Teaching
- Digital Literacy, Copy Rights & Life-long Learning
- Social Media in Education
- Integration and Implementation

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# Entrepreneurship



**29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024**

**Mode : Online**

**Enrollment Ends : 29 Feb 2024**





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## Entrepreneurship Development

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Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. Suresh K Dhameja**  
Professor, NITTTR Bhopal



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### Course Layout

- Philosophy and Concept of Entrepreneurship
- Entrepreneurial Support System
- Entrepreneurial Motivation Training
- Business Opportunity Identification
- Business Plan Formulation
- Industrial Legislations and Acts
- Management of Micro, Small and Medium Enterprises

8 WEEKS

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## Institutional Management for Entrepreneurship

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Mode : Online  
Enrollment Ends : 29 Feb 2024




Coordinated by  
**Dr. Suresh Kumar Dhameja**  
Professor, NITTTR Chandigarh  
and  
**Dr. Niraj Bala**  
Professor, NITTTR Chandigarh



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### Course Layout

- Entrepreneurial Competency Mapping and Business Opportunity Identification
- Entrepreneurial Eco-System and Business Incubation
- Technology Development
- Intellectual Property Right, Technology Transfer and Commercialization
- Business Start-ups
- Rural Centred Entrepreneurship
- Digital Marketing and Branding
- Management of Business Enterprises

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## Innovation Driven Entrepreneurship

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Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. K.S. Giridharan**  
Professor, NITTTR Chennai



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### 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

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# Research and IPR



**29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024**

**Mode : Online**


**Enrollment Ends : 29 Feb 2024**

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## Academic and Research Report Writing

29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024




Coordinated by  
**Dr. Samir Roy**  
Professor, NITTTR Kolkata

**Course Layout**




- Importance of Report Writing in Academics and Research
- Research Paper Writing
- Thesis Writing
- Tools and Techniques
- Miscellaneous Reports
- Hands-on and Mini Project Assignment

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## Intellectual Property Rights

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Mode : Online  
Enrollment Ends : 29 Feb 2024




Coordinated by  
**Dr. P.K. Purohit**  
Professor, NITTTR Bhopal

**Course Layout**

- Introduction to IPR
- Patents and Filing of Patents
- Copyrights, Trademarks, and Geographical Indications
- Industrial Designs, Layout Designs for Integrated Circuits, and Trade Secrets
- Intellectual Property Support System
- International Patent Filing
- Maintenance of Intellectual Records in Institutions
- IP Policy Formulation and Implementation
- Transfer and Commercialization of Intellectual Property

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## Research Methodology and IPR

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Mode : Online  
Enrollment Ends : 29 Feb 2024

**Team Members**





Coordinated by  
**Dr. G. Janardhanan**

**Course Layout**

- Research Design
- Data Collection and Sources
- Data Analysis and Reporting
- Intellectual Property Rights
- Patents

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## Research, Innovation and Social Relevance

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Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Prof. R. K. Dixit**  
Professor, NITTTR Bhopal

**Course Layout**

- Creativity and Research
- Converting Researches to Innovation: Innovation Types
- Product Development, IPR and its Commercialisation
- Support System to Develop Culture of Research and Innovation
- Philanthropy and Social Innovations
- Commercialisation of Research and Innovation
- Fund Raising - Research and Innovation
- Envisioning Innovation and Scenario Building

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## English for Research Paper Writing

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Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. K.N. Shoba**  
Associate Professor, NITTTR Chennai

**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

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# Mentoring and Career Guidance



**29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024**

**Mode : Online**

**Enrollment Ends : 29 Feb 2024**



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# Communication Skills Modes & Knowledge


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Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Er. Amandeep Kaur**  
Professor, NITTTR Chandigarh

**Course Layout**

- Classroom Communication
- Listening and Speaking
- Reading and Writing
- Barriers to Classroom Communication
- Active Learning
- Role of Media in Classroom Communication
- Use of Board (Whiteboard/ Blackboard)
- Concept and Purpose of Feedback






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# Guidance and Counselling


29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. R. Rajendran**  
Professor, NITTTR Chennai

**Course Layout**

- Introduction to Guidance and Counselling
- Hands on Experience in Psychological Tests
- Live Video Demonstration on Counselling to Students
- Assessment Techniques in Guidance and Counselling






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# Professional Ethics for Higher Education Teachers


29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024

Coordinated by  
**Prof. Asmita A. Khajanchee**  
Professor, NITTTR Bhopal  
**Dr. Chanchal Mehra**  
Associate Professor, NITTTR Bhopal

**Course Layout**

- Higher Education Teachers as Professionals
- Human Realities and Essentialities of Values
- Skills for Professionals
- Development of Professional Values, Attitudes and Ethics






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# Mentoring and Counselling Skills for Teachers


29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. S. Renukadevi**  
Professor, NITTTR Chennai

**Course Layout**

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



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# Academic Leadership



**29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024**

**Enrollment Ends : 29 Feb 2024**

**Mode : Online**





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# Academic Leadership in Cross Cultural Context of Higher Educational Institutions



29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024

Mode : Online

Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr E.S.M Suresh**  
Professor, NITTTR Chennai

## Course Layout

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

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# Developing Academic Management & Leadership



29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024

Mode : Online

Enrollment Ends : 29 Feb 2024



Coordinated by  
**Prof. Aashish Deshpande**  
Professor, NITTTR Bhopal

and  
**Prof. Badrilal Gupta**  
Professor, NITTTR Bhopal

## Course Layout

- Understanding Leadership
- Leadership Roles
- Leadership and Organizational Behaviour
- TQM in Educational Institutions
- Management Skills
- Managing Change
- Managing Trends

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# Institutional Development Practices



**29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024**

**Enrollment Ends : 29 Feb 2024**


**Mode : Online**

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## Gati Shakti Multi-Modal Connectivity for Educators


29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. Vinod Kumar**  
Assistant Professor, NITTTR Chennai

**Course Layout**

- Introduction to Gati-Shakti
- Transportation Economics
- Logistics Management
- Dynamic Mapping using GIS
- Sustainable Development



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## NEP and Institutional Building

29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. G. Janardhanan**  
Professor, NITTTR Chennai

**Course Layout**

- Understanding 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






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## Quality Assurance through NAAC Accreditation Process


29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. E.S.M. Suresh**  
Professor, NITTTR Chennai

**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



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## Swatchhata Campus- Clean, Green and Sustainable Technology


29<sup>th</sup> Jan - 30<sup>th</sup> Apr 2024  
Mode : Online  
Enrollment Ends : 29 Feb 2024



Coordinated by  
**Dr. E.S.M. Suresh**  
Professor, NITTTR Chennai

**Course Layout**

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



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