The Institute

National Institute of Technical Teachers Training and Research, Chandigarh, formerly known as Technical Teachers Training Institute (TTTI), was established by Ministry of Human Resource Development, Government of India in 1967 to meet the requirements of training polytechnic teachers for the growth and development of polytechnic education in the northern region of the country. It had the collaboration of Royal Netherlands Government upto 1974. The institute ushered into a new era in November 2003, with its changed name and enhanced status as National Institute of Technical Teachers Training and Research (NITTTR). It is one of the four such National Institutes in the country with focus on the northern region comprising the states of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand, National Capital Territory of Delhi and Union Territory of Chandigarh. Presently, the outreach of the programmes and activities of the institute covers the entire gamut of technical education. It is now reckoned as a resource institute for the technical education system providing services to its clientele covering faculty/staff of technical institutions, officials of directorates/boards of technical education, central and state government departments, industry, students from technical institutes, community and trainees from overseas.

The institute is an autonomous organisation registered under the Societies Registration Act 1860. It is managed by a Board of Governors. Director is the executive head of the institute.

The Institute is managed by a Board of Governors, duly constituted by MHRD, GOI, which is responsible for its general direction and control, as laid down in the Memorandum of Association and Rules and Regulations of the National Institute of Technical Teachers Training and Research, Chandigarh Society. The Director is the Chief Academic and Executive Authority and also an ex-officio member-secretary of the Board/Society. Under provisions of the Memorandum of Association (MoA), the Board of Governors is assisted by Academic Council and Finance Committee.

Vision

To be a lead resource institute for promoting excellence in technical education system.

Mission

- To offer continuing education and training programs for the faculty and staff of technical education system.
• To develop need-based curricula for technical education programs
• To develop instructional material to enhance effectiveness of teaching-learning process
• To undertake research and development in engineering & technology and technical education
• To provide extension and consultancy services to technical education system

Core Values

• **Quality**: Focusing on standards of performance and continuous improvement.
• **Professionalism**: Demonstrating desired level of performance with prescribed standards of ethical behavior, intellectual honesty and professional conduct.
• **Accountability**: Owning responsibility for academic work.
• **Creativity and Innovation**: Promoting and encouraging creativity.
• **Collaboration**: Encouraging and supporting networking, within and outside the institute at national and international level.
• **Transparency**: Ensuring transparency in policies, rules and regulations and working.

Broad Objectives of the Institute

• To provide professional education and training for teachers of engineering and technology disciplines in technical institutions for advancement of learning towards promoting excellence in technical education and industry.
• To strive for continuous improvement in instruction and research in engineering and technology disciplines and research in management of technical education.
• To actively support the growth and quality improvement of technical education in the country through involvement in activities at national and state levels.

Clientele

• Faculty/Staff of Technical Institutions
• Officials of DTEs, BTEs and State Technical Universities
• Central and State Government Departments
• Working Professionals from Industry and other Agencies
• Students from Technical Education System
• Community
• Trainees from Overseas

The Activities

The institute undertakes the following spectrum of activities to achieve its objectives:

• Faculty/Staff Development
  - Long Term Programmes
  - Short Term Programmes
• Curriculum Development
• Instructional Material Development
• Research and Development
• Extension Services and Consultancy
Faculty/Staff Development Programmes

Long Term Programmes

- Ph.D Programmes
- Master Degree Programmes  (Industry Oriented and Practice Based)
  - Engineering Education
  - Mechanical Engineering (Manufacturing Technology)
  - Computer Science and Engineering
  - Civil Engineering (Construction Technology and Management)
  - Electronics and Communication Engineering
  - Electrical Engineering (Instrumentation and Control)

Master Degree programmes are offered on regular as well as modular mode. The institute is affiliated to Panjab University, Chandigarh for the above programmes.

Short Term Programmes

The institute offers need-based and customized short term courses of one to two weeks duration in the following areas:

- Engineering and Technology
- Applied Sciences
- Pedagogical Sciences
- Education and Educational Management
- Media Development
- Curriculum Development
- Entrepreneurship Development
- Practical Training in Industry
- Rural Development
- Library Science

Curriculum Development

- Design of Curricula in New and Emerging Areas (Engineering and Non-engineering)
- Revision of Existing Curricula
- Design of curricula for non-formal training programmes offered under scheme of community development through polytechnics
- Design of curricula for non-formal vocational programmes under PWD Scheme
- Design of curricula of diploma programmes in alignment with NSQF

Instructional Material Development

- Print Material
  Textbooks, Laboratory Manuals, Work-books, Modules, Charts, Readers etc.

- Non-Print Material
  Educational Video Films, Multi-media Learning Packages, Experimental Kits, Trainer Boards, Computer Aided Instructional Packages etc.

Research and Development

- Research studies pertaining to Planning and Management of Technical Education System
- Engineering and Technology Areas through Ph.D and Master Degree Programmes
Extension Services

- Assistance to National and State Level Organizations on Academic Matters
- Assistance to Technical Education System in Effective Implementation of Curricula
- Implementation of the Scheme of Community Development through Polytechnics
- Implementation of the Scheme of Integrating Persons with Disabilities in Technical Vocational Education System
- Practical Training for Students from Technical Institutions

Consultancy Projects

- Design and Testing Services to Industry
- Tailor-made Training Programmes for Working Professionals and Overseas Trainees
- Sponsored Research and Development Projects
- Production of Educational Video Films

DEPARTMENTS OF THE INSTITUTE

Applied Science Department

Short Term Programmes

The training programmes are offered in the following areas:

- Laboratory practices in Applied Physics
- Advances in laser Technology
- Lasers and Their Applications
- Optical Fibers and Their Applications
- Optical Fiber Communication Technology
- Optical fiber and their applications
- OFC Systems- Design & Simulations
- Fiber Optic Tests & Measurements
- OFC Networks & Trouble Shooting
- Computer Applications in Physics
- Nuclear Energy and Power options
- Nuclear Techniques & Instrumentation
- Nanotechnology: Development and challenges
- Nuclear Radiations & Their Applications
- Nanomaterials: Characterization & Applications
- Numerical Methods with engineering applications
- Advanced Numerical Methods with MATLAB
- Integral Transforms with Engineering Applications
- Operations Research
- Engineering Applications of Mathematics
Laboratories

- Applied Physics and Radiation Physics Lab
- Laser & Fiber Optics Lab
- Photonics Lab: Photonic Transmission Design Suites
- Nano Science & Technology Lab
- Applied Mathematics Lab

Civil Engineering Department

Long Term Programmes

- Ph.D. Programme
- M.E. in Civil Engineering (Construction Technology and Management)
  (Regular/Modular mode)

Short Term Programmes

The training programmes are offered in the following areas:

- Advances in Cement and Concrete including Mix Design
- Design and Construction of Steel Structure
- Application of waterproofing material and techniques
- Soil Investigation Techniques
- Design and Construction of Flexible Pavements
- Green and Energy Efficient Buildings
- Software Applications in Civil Engineering
- Structural Diagnostic Techniques of RCC Structures and Condition Assessment

Workshops

Workshops are conducted in areas of:

- Concrete: Concepts and Challenges
- NDT Analysis and Repair of Concrete Structures
- Software Applications in Civil Engineering
- Sustainable Environmental Management

Consultancy Projects

Department is actively engaged in offering research based consultancy and testing to various government organizations, private consultants and contractors in the following areas:

- Concrete Mix Design
- Testing of Civil Engineering Materials
- Design of Bituminous Mixes
- Quality Control in Highways
- Soil Investigations and Bearing
- Water and Waste Water Analysis
Laboratories

- Environmental Studies
- Non Destructive Testing, Repair and Rehabilitation of Structures
- Capacity Determination
- Concrete Technology
- Soil Engineering
- Highway Engineering
- Public Health Engineering
- Hydraulics
- Non Destructive Testing
- Surveying
- Computer Application

Areas of Research

- Concrete Technology
- Pavement Design
- Structural Engineering
- Environmental Engineering
- Geotechnical Engineering
- Water Resources Management
- Concrete Technology
- Pavement Design
- Structural Engineering
- Environmental Engineering
- Geotechnical Engineering
- Water Resources Management

Softwares Available

- Staad Pro V8i
- ETABS
- Bentley MX Road
- Midas Soil Works
- Primavera Software
- MapInfo Professional Software
- ArcGIS Software

Computer Science and Engineering Department

Long Term Programmes

- Ph.D. Programme
- M.E. (Computer Science and Engineering) (Regular/Modular mode)

Short Term Programmes

The training programmes are offered in the following areas:

- Multimedia/ Web Technologies
- Android Programming
- Open Source Technologies
- Linux Administration
- VB.Net /ASP.Net
- MATLAB/Scilab Programming
- Wireless Networks
- Mobile / Cloud Computing
- Big Data Analysis
- Cyber Crimes and Forensic Tools
- CCNA

Laboratories

- Cyber Security Lab
- CISCO Academy Lab
- Research & Innovations Lab
- Computer Applications Lab
- Software Lab
- Computer& Network Support Center
Areas of Research

- Wireless Communications & Networks
- Mobile Computing
- Cryptography & Cyber Security
- Advance Algorithms
- Machine Learning and Data Mining
- Image Processing
- Virtual Learning
- Open Source Technologies
- Cloud computing
- Information Retrieval
- Mining
- Image Processing
- Virtual Learning
- Open Source Technologies
- Cloud computing
- Information Retrieval

Curriculum Development Centre

The centre has developed and follows a systematic methodology to design and revise curricula for engineering and non-engineering programmes offered in technical institutions with the involvement of end-users. The curricula are reviewed and updated periodically by the centre to meet the changing requirements of world of work. At present the centre is designing curricula in alignment with NS QF. The centre conducts training programmes for technical educators/administrators working at different levels in specific areas of curriculum development leading to effective implementation of curricula in the polytechnics and engineering colleges.

The training programmes are offered in the following areas:

- Effective Curriculum Implementation
- Curriculum Development Processes
- Communication Skills for Effecting Curriculum Implementation
- Project Planning, Execution and Evaluation
- Developing Healthy Work culture in Technical Institutions
- Developing Practical Skills Amongst Students
- Integrating Generic Skills

Communication Skills Lab

Realising the need for developing soft skills, especially communication skills in engineers and technicians, centre has set up a Communication Skill Laboratory and conducts large number of training programme. About 30 teachers can be given training at a time.

Areas of Research

- Norms and standards
- Teaching-learning Process,
- Student Performance,

- Utilization of Institutional Facilities
- Networking with Employers/ other Organisations.

Education and Educational Management

1. Education and Training Programmes

(a) Long Term Programmes

- Ph.D. Programme
- M.Tech. Engineering Education is offered on modular mode with an intake of 40.
(b) Short Term Programmes

The department offers need-based and customised short term training courses of one to two weeks duration in the areas such as:

- Induction Training Programme for Newly Recruited Teachers
- Instructional Planning and Delivery
- Effective Teaching
- Classroom Communication
- Classroom Teaching for Soft Skill Development
- Student Evaluation and Setting Question Papers
- Student Centered Methods of Instruction
- Career Guidance & Counselling
- Preparing Students for Job Interviews
- Development of Soft Skills
- Institutional Management
- Motivation, Creativity & Team Building
- Building Positive Attitudes
- Stress and Time Management
- Institutional Evaluation
- Emotional Intelligence at Workplace
- Competencies for 21st Century
- Personality Development for Staff
- Modern Office Management for Ministerial Staff

Instructional Material Development (Print and Non-print)

The department produces a variety of print instructional materials like readers, modules and non-print materials like video films, etc. In addition, course contents for need-based and customised short term training programmes are developed. About 110 video recorded lectures are available on NCTEL.

Research and Development

The department undertakes a number of research and development projects in Educational Technology and Educational Management areas for generating new knowledge and to develop new methods and strategies for solving problems of the technical education system and industry. In addition, the department faculty guide students of M.Tech. for their dissertation work. Broad areas of research include:

- Teaching, Learning and Evaluation
- Design of Organizational Structure of State Boards of Technical Education and Directorate of Technical Education
- Case Studies of Educational Institutions and Organizations
- Autonomy to educational Institutions
- Effectiveness and Evaluation Studies

Facilities

The department has well developed lab with facilities for psychological tests for carrying out R&D Studies.

Educational Television Centre

The Educational Television Centre of the Institute has the most modern video film production facilities in this part of the country. The main purpose of the centre is to produce educational video packages and e-learning material (non print instructional learning material) for the qualitative growth of technical and vocational education system in the country.

The Centre is involved in education and training of the faculty and staff of technical institutions, students and public at large through long term and short term programmes in video film production, camera operation and management graphics and animation,
editing and post production etc. The centre also undertake consultancy projects for producing educational/institutional (documentaries) video films for many outside organizations both national and international.

**Short Term Programmes**

The training programmes are offered in the following areas:

- Development of latest Instructional Media using Page Maker, Adobe Photoshop, Adobe after Effect and Adobe Premier
- Enchaining Presentation Quality using Graphics and Animation
- Video Film Production Techniques
- Graphics and Animation for Instructional Material Development
- Script Writing and Video Editing
- Multi-Media Technology
- E-content generation
- Multi-media technology

**Facilities**

- TV Studio (Main Studio)
- Mini Studio
- Out Door Recording Unit-ENG
- Editing System
- Graphics, Animation and Multimedia Lab.
- Video Library
- Maintenance of Video Equipment
- Multi-media technology

**Laboratories**

- Non Linear Auditing lab
- Graphics and animation Lab
- Multimedia Lab
- Conversion Lab, Gyan Darshan
- Engineering Lab

**Electrical Engineering**

**Long Term Programmes**

- Ph.D. Programme
- M.E. Electrical Engineering (Instrumentation and Control) (Regular/Modular mode)

**Short Term Programmes**

The training programmes are offered in the following areas:

- Energy Management
- Power Electronics and Drives
- Automation in Industries
- MATLAB and its Hardware Interface
- Repair & Maintenance of Electrical Equipment
- Thermal and Hydro Power Station Practices
- Virtual Instrumentation
Extension Services and Consultancy Projects

Department undertakes various consultancy projects time to time based on the requirement.

- Train the Trainers’ of LSEA (Government Technical College), Ikotun, Lagos, Nigeria in Electrical Installation and Maintenance Work.
- Preparation of 95 video films for the teachers and students of LSEA.
- Inspection of Street Light installation under Municipal Corporation, Panchkula.
- Design of Outdoor Electrical Installations for MC Chandigarh.
- Emergency Vehicle Pre-emption – A DST project for Chandigarh Administration.

Laboratories

- Electrical Machines Lab
- PLC and SCADA Lab
- Power Electronics Lab
- Instrumentation and Control Lab
- Process Control Lab
- Computer Applications Lab
- Embedded Lab
- Virtual Instrumentation Lab
- Research and Innovation Lab

Areas of Research

- Power System
- Smart Grid Technologies
- Power Electronics
- Electric Drives
- Instrumentation and Control
- Bio Medical Instrumentation
- Machines

Electronics and Communication Engineering

Long Term Programmes

- Ph.D. Programme
- M.E. (Electronics and Communication Engineering) (Regular/Modular mode)

Short Term Programmes

The training programmes are offered in the following areas:

- Wireless Communication
- Mobile Communication
- Antenna System Design
- Embedded System Design
- Digital Signal Processing with MATLAB
• Artificial Neural Network  
• Scilab Programming  
• Digital Image Processing using Scilab  
• 3G and LTE  
• Introduction to System Designing  
• Advanced VLSI Design

Laboratories

• Networking Laboratory  
• DSP Laboratory  
• Embedded System Laboratory  
• Communication Laboratory  
• VLSI Laboratory

Areas of Research

• Wireless Communications & Networks  
• Mobile Computing  
• Cryptography & Cyber Security  
• Advance Algorithms  
• Machine Learning and Data Mining  
• Image Processing  
• Virtual Learning  
• Open Source Technologies  
• Cloud computing  
• Information Retrieval

Skill Development Programmes

Electronics Service Centre of the department is offering Skill Development Programmes and industrial Training of the Diploma and Engineering students in the following areas:

• Embedded System Design  
• Power Supply Fabrication and Testing  
• PCB Fabrication and Testing  
• Electronics Experiments, Fabrication and Testing
Entrepreneurship Development and Industrial Coordination

Short Term Programmes

The training programmes are offered in the following areas:

- Entrepreneurship Development and Global Business Foundation Skills
- Intellectual Property Rights and Patenting
- Total Quality Management (TQM) and ISO 9001:2008
- Strategic Planning and Management of Technical Institutions
- Intellectual Property Rights and Entrepreneurship
- Program Accreditation and Quality Management
- Entrepreneurship Awareness Camp
- Entrepreneurship and Business Incubation using Blue Ocean Strategies
- Establishing and Management of Entrepreneurship Development Cells (EDCs) and Industry-Institute Partnership Cells (IIPCs) in Technical Institutions
- E-governance, Eco-preneurship and Green IT in Technical Institutions
- Industry-Institute Partnership
- Project Management Skills for Managing New Enterprise
- Business Start-up and Social Entrepreneurship

Areas of Research

- Entrepreneurship and allied aspects.
- Business Start-up and Management.
- Modernization and Expansion of Micro, Small and Medium Enterprises (MSME)
- Energy Conservation.
- Technology Adoption & Management.
- Tracer Studies pertaining to Technical Graduates
- Impact Assessment pertaining to Entrepreneurship Development Schemes / Programs etc

Information Management and Coordination

External Coordination

- Obtaining information about the needs of the clientele system relevant to the programmes and activities that can be offered by the institute
- Organising important meetings, workshops of Directories of Technical Education, Principal of Polytechnics for further planning.
- Liaisoning with the States, AICTE, EdCIL, MHRD, NPIU etc. and other national and international agencies for ascertaining their needs.
- Coordinating inter-disciplinary projects at International and National levels.

Internal Coordination

- Consolidation of needs identified through extension services and casting them into a total Operational Plan of the institute for optional utilisation of resources.
• Collecting information about the institute including progress of departmental activities.
• Finalising the annual report of the institute.
• Preparing norms for conduct of academic programmes and activities for outside agencies.
• Supporting Director in academic decision making at the institute level.

**Library**

Institute has a well-developed library to cater to the information needs of teachers; students; researchers and also academic institutions from all over the country.

The Library has been fully computerized. LIBERTY, web-based library management software, is used to computerized the library collection and services. This is an integrated software with all the in-house library operations and services.

**Short Term Programmes**

The training programs are offered in the following areas:

- Digital Library
- Internet tools for Librarians
- Digital library management
- Knowledge management tools
- Open source software
- Information literacy

**Collection**

The library has specialized collection in the field of engineering and technology, education with special emphasis on technical education along with training and research and education.

The library strives to collect/add published literature to its collection supporting the information needs of the teachers, students, research scholars and other professionals of the organization. Keeping with changing consensus technical literature, school of thoughts and development the library keeps its collections live and relevant by constantly adding latest books, thesis, monographs, CD-ROMs, print: electronic journals, e-databases to its collection.

<table>
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<th>RESOURCES</th>
<th>NUMBERS</th>
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<tr>
<td>Books</td>
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<td>38</td>
</tr>
<tr>
<td>e-journals</td>
<td>8 e-resources</td>
</tr>
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</table>
e-Library

E-resources has been subscribed through InflibNet consortia. The e-resources include: ASME, IEEE (ASPP+POP, Nature, JSTOR, EPW, Oxford University Press, ISID, Jgate+JCCC. These resources can be accessed in the institute from anywhere through Internet connectivity. 10 numbers of computer systems have been installed in the e-library. The users can use these systems to access the e-journals and word processing.

Directory of open sources journals

A directory of open source journals in computer science, electronics, electrical engineering, which are relevant to the needs of the institutes’, has been compiled. The directory can be accessed through a link provided in the central library tab in the institute web site.

Library services offered

- Borrowing Facility
- Inter-Library Loan
- Photocopying
- Reference service
- Internet access.
- Internet searching
- Compilation of bibliography
- Union Catalogue consortia
- Library Hours
- The Computer facility
- Current contents
- WEB OPAC
- Directory of open sources journals

Collaboration

- Inflibnet consortia
- British Council library
- American Information services
- Inflibnet IndCAT

Mechanical Engineering

Long Term Programmes

- Ph.D. Programme
- M.E. Mechanical Engineering (Manufacturing Technology) (Regular/Modular mode)

Short Term Programmes

The training programmes are offered in the following areas:

- Mechatronics
- Industrial Automation & Robotics
- CNC Machines - Operation & Programming
- Hybrid Machining
- Latest Trends in Automotive Engineering
- CAD using CATIA / CREO / Inventor
- Material Testing including NDT
- Optimization Techniques
Laboratory & Research Facilities

- Automation and FMS
- CNC Machines
- Computer Aided Design & RPT
- Machine Tool
- Mechatronics and Measurements
- Advanced Material Testing
- Tribology
- Advanced Metrology

Testing Facilities

Department also offers mechanical and metallurgical testing facilities to industry and researchers.

Media and Continuing Education Centre

The Centre Conducts training programmes in the following areas:

- Educational Technology,
- Media Design and Development,
- Operation & Maintenance of AV Aids,
- Management of LRUCs/LRDCs,
- Innovation & Creativity Development,
- Organisation & Individual Development,
- Managing Technology etc.
- Educational Auditing and Accreditation
- Strategic Planning and Management for Excellence
- E-Governance in Technical Institutions

Facilities/Laboratories

- Printing and Reprographic Section
- Photography
- Binding and Lamination Section
- Desk Top Publishing & Drawing Section
- Production of Advertising Material
- Information Resource Dissemination Section

Area of Research:

- SWOT Analysis of Institutions
- Setting up Media Centre on Turnkey Basis
- Design and Development of Prototype
- Fabrication of New Products
- Setting up Production Centre/Activity Centre
Rural Development

The Department facilitates implementation of the following social sector schemes of MHRD, GOI:

Scheme of Community Development Through Polytechnics

- The broad objective of the scheme is to make the benefit of science & technology reach to the SCs/STs/OBCs/Minorities/Women/Economically weaker sections of the society/School dropouts/Disabled/Rural masses etc. At present, there are 155 polytechnics implementing the CDTP scheme in Northern Region.

- Scheme for integrating persons with disabilities in mainstream of technical and vocational education

- The broad objective of the scheme is to facilitate effective implementation of the Scheme for Integrating Persons with Disabilities (PWDs) in the Mainstream of Technical and Vocational Education. The department ensures participation of PWDs in Technical and Vocational Education.

Facilities and Infrastructure

Rural Technology Demonstration Yard

The department has developed and improved various technologies for rural development like bio-gas technology, vermiculture units, organic farm, smokeless chullah and low cost kitchen, Waste water recycling and phyto-remediation demonstration model and rainwater harvesting.

Weather Monitoring System

This system measures and display as well records information with respect to weather parameters such as temperature, relative humidity, rainfall, wind speed and direction.

Community Information Network Centre

This Department has MIS for managing the data with respect to CDTP scheme at various levels. Presently, this MIS is under testing stage. This Centre would facilitate the data receiving, sending and sharing to the MHRD, NITTTRs, DTEs and institutions implementing the scheme of CDTP.

Department conducts training programmes in the following areas:

- Rural sanitation
- Low cost construction technologies
- Renewable energy sources
- Watershed management
- Organic farming
- Disaster management
- Rural entrepreneurship
- Micro enterprises
- Skill development and capacity building of rural people
- Empowerment of marginalized and rural women
- NSQF
- Planning and management of CDTP activities
Training programmes under the PWD scheme include:

- Inclusive education for the differently abled
- Rehabilitation and training of different categories of the differently abled
- Sign language
- Educational technology for the deaf /blind /mentally retarded
- Facilities and concessions for the differently abled

**National Award for The Empowerment of PWDs**

The institute has been serving the PWDs for the past 15 years through the Scheme for Integrating Persons With Disabilities in the Mainstream of Technical and Vocational Education. In recognition of the work done by the institute for the ultimate empowerment of the PWDs, the institute was conferred the National Award for the Empowerment of the PWDs in December 2013. The Award was given by the Hon'ble President of India on 03.12.2013.

**Tech Mahindra Smart Centre**

Tech Mahindra Smart Centre for the vocational training and placement of persons with disabilities has been made operational from May 2014 onwards. The Centre enrolls persons with disabilities belonging to all disabilities covered under the PWD Act 1995. This Centre is a joint initiative of NITTTR, Chandigarh and Sarthak Educational Trust, New Delhi. The Centre aims at getting certification for its trainees [in the area of IT and Telecommunication] from Telecom Sector Skill Council. The Centre has received a very encouraging response from society at large.

**Other Facilities**

**Smart Classrooms**

The institute has established smart class rooms having facilities to offer training programmes through Information and Communication Technology (ICT).
**NITTTR Start-up**

Under “Skilling India Mission” of Govt. of India, the institute has setup an Innovation Cell “ENOVATE SKILL” on Robotics and **Flipflop Inforsec Labs Pvt. Ltd.** to provide high quality technical education in various areas of technologies like Cyber Security, Cloud Computing, Big Data Analytics, Forensics, Software Defined Networking (SDN), Programming Languages to name a few, which are focused to develop highly skilled professionals. The aim of these Startups is to develop skills, enhancing innovation, creativity and interest in students for research so as to promote entrepreneurship among students.

**Guest House/Hostel and Auditorium**

The institute has well-furnished hostel accommodation for approximately 400 students. There is separate hostel facility for male and female students. The institute guest house is a rare facility in the City Beautiful.

The newly renovated Auditorium of the institute has the capacity to accommodate 350 persons.