



National Institute of Technical Teachers' Training and Research (NITTR) Kolkata

Deemed to be University
Under Ministry of Education, Govt. of India

SUMMER INTERNSHIP PROGRAMME



About Us

National Institute of Technical Teachers' Training & Research (NITTR), Kolkata started its journey in 1965 under the Ministry of Education, Government of India. Government of India, in 2003, accorded national status to this Institute (along with the 3 sister institutes) in

recognition to the expert service rendered for overall improvement of quality of Technical Education System. The primary focus of the Institute is to provide in-service training to the teachers and staff of Degree and Diploma level technical institutions and conducting activities related to the quality improvement of the technical education system of the country.

As per Government of India notification No. 9-1/2021-U.3(A) dated 22nd February, 2024, in exercise of powers conferred under Section 3 of UGC Act, 1956, the Ministry of Education, on the advice of the UGC, has declared NITTR Kolkata as an **Institution Deemed to be University under distinct category**

The Institute has excellent infrastructural support in the form of well-equipped laboratories and other resources. The focal activities of the Institute include Short-Term Training programmes, Learning Resources Development, Educational Research and Management as also Extension Services, Curriculum Development. Apart from these, the Institute is offering four M. Tech. Programmes in Green Manufacturing, Intelligent Control Systems, Artificial Intelligence and Machine Learning, Smart Structural Engineering and also offering Ph.D programme in five departments.

The NITTR Kolkata is proudly introducing Summer Internship Programme in the academic year 2025-26 at the department of Civil Engineering, Computer Science & Engineering, Electrical Engineering, Mechanical Engineering and Technical Education & Management.

Objective of the Programme

Students will gain practical knowledge in their respective areas and conduct reasonable work, aiming research & development of the system or device or component or unit /product development/ research paper publication/ solving realistic problems etc.

Duration

Tentative starting date is 15th June to last week of July 2025. Exact date of commencement of the programme will be communicated through email on the later stage.

DEPARTMENTS

Civil Engineering Dept.

Eligibility: Candidates completed in the 2nd Year of UG/Diploma programme OR completed 1st Year of the PG programme in Civil Engineering.

Areas of work:

- Civil Engineering
- Design and analysis of structures (min B.Tech)
- Earthquake / wind analysis of structures (min B.Tech)
- Environmental engineering
- Environmental monitoring and assessment
- FRP Composite Plate (min B.Tech)
- Landfill reclamation
- leachate contamination
- Material testing/non-destructive test/Shake table testing
- Pile Foundation
- Solid Waste Management

Computer Science & Engg. Dept.

Eligibility: Candidates completed the 2nd Year of UG/Diploma programme OR completed 1st Year of the PG programme in CSE, IT OR completed 1st Year of MCA, from an AICTE / UGC recognized Institute.

Areas of work:

- Applications of Computational Geometry in Clustering
- Bio Medical Image Processing
- Data Science & Statistics
- Deep Learning
- Deep Learning
- Large Language Models
- Machine Learning
- Machine Learning
- Machine Learning and It's Applications
- Numerical Simulation
- Papyri analysis
- Parallel Computing

Technical Education & Mgt. Dept.

Eligibility: Candidates completed the 2nd Year of UG OR completed 1st Year of the PG programme in Education, Management, Humanities and Social Sciences disciplines.

Areas of work:

- Assessment & evaluation
- Climate Change
- Curriculum Design
- Digital Pedagogy
- Disaster Risk Management
- Disaster Risk Reduction and Management.
- Ecosystem Resilience
- Education Technology
- Educational Psychologies
- Educational research
- Heat Mitigation
- Resilience Heat Vulnerability
- HRD and HRM
- Humanities and Social Sciences
- Institutional Assessment
- Micro/Nanoelectronics
- Mitigation and Adaptation
- Nanodevices and VLSI Design
- Soft skill development
- Students Assessment and Evaluation
- Technology enabled learning, pedagogy & practice
- Training & Development

Electrical Engineering Department

Eligibility: Candidates completed the 2nd Year of UG/Diploma programme OR completed 1st Year of the PG programme in Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines.

Areas of work:

- Energy Management for Smart Microgrid
- Impact analysis of EV integration
- MATLAB and LABVIEW Applications
- PLC Programming and Applications
- Power Quality Analysis in Microgrid System
- Renewable energy Sources and Storage Devices
- Sensors and IoT Applications

Mechanical Engineering Dept.

Eligibility: Candidates completed the 2nd Year of UG/Diploma programme OR completed 1st Year of the PG programme in Mechanical Engineering or allied or interdisciplinary fields.

Areas of work:

- Additive Manufacturing and Materials Processing
- AI, ML based data processing in Robotics and IOT based systems development
- Alternative fuels
- Biomaterials
- Digital Advanced Manufacturing for Smart Product Development
- Digital Supply Chain Management
- Green Composite Manufacturing
- Industrial Engineering
- Materials for Gas Turbine engine components
- Metal matrix composite
- Nanomaterials
- Power plant engineering,
- Robotics and IOT based systems development
- Super alloys
- Technical Education
- Thermal Engineering, Turbomachinery, CFD, Gas Turbines

General Conditions & Instructions

Fee: Rs. 2,000/- for 4 weeks and Rs.3,000/- for 6 weeks.

Accommodation: Efforts will be made to provide accommodation to the interns in the institute Hostel on payment basis. Hostel charge will be Rs. 1,000/- per month (excluding meal charge).

Eligibility: Candidates completed the 2nd Year of UG/Diploma programme OR completed 1st Year of the PG programme

How to apply:

- Registration: Applicant should register with their details using the link: <https://forms.gle/SitykZSCQ1ZGYnz18>



- The selected candidates will be communicated by email only.
- Documents to be submitted: (1) Signed application (2) Identity proof (3) Consolidated Grade Card (appropriate) (4) The letter of reference from the parent Institute

Submission of Fees: Once confirmed, the internship fees (₹2,000 for four weeks / ₹3,000 for six weeks) are to be deposited through **online payment (NEFT/RTGS)** in the Account: **National Institute of Technical Teachers' Training & Research, Kolkata**; Bank Account No.: 089302000000263; Bank Name: Indian Overseas Bank; Bank Address: Salt Lake City, Block- EA, Sector-I, Kolkata-700064; IFSC Code: IOBA0000893. The fee once paid will not be refunded or re-adjusted under any circumstances.

Certificate: Upon successful completion of the programme, certificates will be provided by NITTR Kolkata authority to the students.

Important Dates

Event	Tentative Timeline
Last Date for submission of Application form	May 08, 2025, Thursday
Dates for Interview through online	May 15, 2025, Thursday
Joining of Internship	Communicated through your email
Duration of Internship	4 weeks / 6 weeks

CONTACT:

PG Cell, National Institute of Technical Teachers' Training and Research, Kolkata, Block-FC, Sector-III, Salt Lake City, Kolkata-700106

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