

PROGRAMME CALENDAR (JULY TO SEPTEMBER) 2024-25

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NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH, KOLKATA
Block – FC, Sector – III, Salt Lake City, Kolkata – 700 106

VISION

NITTTR, Kolkata envisions to be the lead resource institute for promoting excellence in technical education, management education and vocational education & training system

- To introduce emerging scientific technologies for development of effective teaching-learning system in technical education,
- To increase the outreach of training by adopting flexible & Open Learning Technology,
- To integrate the world of work with the technical education system,
- To assist policy makers as a think-tank in formulating TVET strategies,
- To offer extension services and consultancy appropriate to TVET system, in collaboration with industry and community partnership,
- To develop and introduce Quality Management System,
- To share experience and collaborate with national and international agencies involved in technical education for mutual benefits,
- To undertake research in different areas of TVET system.

About Us

National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata was established in 1965 as Technical Teachers' Training Institute, Calcutta. This was the first of four such Institutes (other three being at Chandigarh, Bhopal and Chennai) established by the Department of Education, Govt. of India as fully centrally funded Autonomous Institution. 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 conduct activities related to the quality improvement of the technical education system of the country. NITTTR, Kolkata has been actively involved in improvement of quality of the technical education system in various states including those in the north-east through innovative academic interventions, providing assistance to policy makers at the national and state levels, in formulation of educational plans, projects and their implementation in the fast changing scenario. By virtue of working closely over the last few decades, this institute has developed a thorough understanding of the technical educational needs of the states in the eastern region including those in the north-east. Govt. of India, in 2003, accorded national status to the Institute, in recognition to the expert services rendered for overall improvement of quality of Technical Education System. NITTTR, Kolkata acts as a catalyst in introducing changes in the various components of technical education system, plays a proactive role in identifying changes in the industry, technology, economy and society and acts as a facilitator in this process of change.

Some of the notable national level projects in which the Institute is associated are Nodal agency to Centrally Sponsored Community Development through Polytechnic Scheme, Designing & conducting AICTE sponsored "Induction Training Programme" for fresh teachers of engineering and polytechnic colleges, Facilitating implementation of Centrally sponsored Scheme for Integrating Persons with Disabilities (PWD) in the mainstream of Technical & Vocational Education etc.

The focal activities of the Institute are Short Term Training, Curriculum Development, Learning Resources Development, Research in the field of Technical Education System, Educational Management and Extension Services. Besides regular activities, the Institute has been offering, since 2003, AICTE approved M. Tech. Degree Programme in Manufacturing Technology, affiliated to WBUT. During 2005-2006 two more M. Tech. Programmes namely Multimedia & Software Systems and Mechatronics Engineering were started. The M. Tech. Programme in Structural Engineering was also started from 2011-12. The Institute has highly qualified faculty members and excellent infrastructural support in the form of well-equipped laboratories, computers, library facilities, Welding Centre, CAD/CAM and other resources. The institute has two Extension Centres one at Guwahati and the other in Bhubaneswar for reaching out to its clients in the North-east and Orissa. At present this Institution is also focusing on others, Teachers' Training through ICT Mode.



Preface

Like previous years, National Institute of Technical Teachers' Training and Research (NITTTR), Kolkata has prepared its Programme Calendar for the year 2024-25.

In order to fulfill the needs of technical teachers of the country, Short- Term Training programmes (STTP) / Faculty Development Program (FDP) in the following modes are planned.

1. Contact mode at NITTTR, Kolkata and/or the extension centres
2. ICT-based Programmes
3. In-House Programmes
4. Demand-based Special Programmes (both offline and online)
5. Hybrid Mode

The schedules of the trainings planned in this calendar are not exhaustive. The Institute also provides trainings based on specific needs of various stake holders including Private Technical Institutes following the guidelines of the Institute. Further, In-House training may be organized to fulfil the requirement of Faculty Development Programme of various Technical Institutes.

It is intended that all Technical Institutes will come up with their needs and take advantage of services provided by NITTTR, Kolkata. This helps to upgrade the learning-teaching system of the institutes and in turn, enriches the education system of the country.





NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH, KOLKATA
Registration for STTP – Application Form

1 Prog. Code :

2 (a) Programme Title :

(b) Date : From: To:

(c) Prog. Coordinator(s) :

3 (a) Name (in CAPS) :

First	Middle	Last
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(b) Designation :

(c) Department :

(d) Institution :

(e) Institute Address :

	Pin: <input type="text"/>
State	<input type="text"/>

(f) Caste : (g) Gender

(h) Contact Number :

Mobile

Email

4 Highest Academic Qualification:

Degree/Diploma	University/Others	Year of Passing	Class Obtained

5 (a) Experience (in years) : Teaching Industry/Field

6. Payment of Course Fees Rs. Paid Yes No ,
 If yes, Receipt No. _____

I promise to attend the above mentioned training programme, if selected.

Date: _____ Signature of the Applicant
 This is to certify that the applicant will be released to attend the training programme, if selected, without any financial liability on part of the sponsoring authority.

Date: _____ Signature of the Sponsoring Authority with Seal

NOTE: Application without Signature & Seal of the Sponsoring Authority will not be considered for selection.

Scan copy send by Email: academic@nittrkol.ac.in

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National Level Short Term Training Program (STTP) / Faculty Development Programme (FDP)

Sl. No.	Prog. Code	Programme Title	Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date		Week	Target Participant / Group	Programme Outcomes
							From	To			
1	PS24B	Student mentorship for holistic development	1000	Kolkata	ICT	Habiba Hussain	01-07-2024	05-07-2024	1	Teachers of polytechnics, Engg. colleges & all higher educational institutes	Upon participating in the programme, the participants will be able to <ul style="list-style-type: none"> • Characterise 'holistic development' • Identify the roles of coach & mentor • Explain mentorship styles • Encourage growth mindset
2	CU59B	Introduction to Software-Defined Networking (SDN)	1000	Kolkata	ICT	Rajeev Chatterjee	08-07-2024	12-07-2024	1	Faculty of CSE, IT Computer Application, Electronics, discipline	After completion of this programme, the participants will be able to <ul style="list-style-type: none"> • Explain the concept of SDN, • Demonstrate controller management in SDN, • Exhibit the SD based WAN & Mobile Networks • Explain Security issues and Back-up Restoration in SDN.
3	CU60B	Wastwater Treatment – Regulatory Trends and technical solution	1000	Kolkata	ICT	Sailendra Nath Mandal	01-07-2024	05-07-2024	1	Faculty and Staff of any discipline	After completion of the programme, the participants will be able to acquire – <ul style="list-style-type: none"> • Illustrate knowledge of basic concept of different parameter and treatment techniques of wastewater water • Demonstrate skill of online demonstration of different device, performing experiments, interpreting results, preparing test report, providing laboratory instructions to develop inquiring attitude among the student and evaluation of laboratory performance in related to drinking water testing laboratory, • demonstrate attitude of live online participation in the laboratory/field.

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4	PS26C	Student Assessment and Evaluation	500	Kolkata	ICT	Dipankar Bose	08-07-2024	12-07-2024	1	Faculty members of all disciplines from different technical institutions	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> distinguish between assessment and evaluation plan of assessment by designing suitable questionnaire/tools explain rubric for assessment and evaluation.
5	PS25C	Research and Publication Ethics	500	BBSR	ICT	Niladri Pratap Maity	08-07-2024	12-07-2024	1	Faculty members/Staffs of all disciplines	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> Define research Identify different aspects of research. Appreciate the four elements of writing a research thesis. Follow Research Integrity and Publication Ethic Follow several ethical issues Identify Error and Fraud in research Prepare Database and research metrics Follow how to publish research outcomes
6	CU61A	Artificial Intelligence (AI) in Civil Engineering	1500	Kolkata	ICT	Naveen BP	08-07-2024	12-07-2024	1	Faculty and Laboratory Technicians	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> discuss the methodology of various Artificial intelligence (AI) models identify Application of various Artificial Intelligence models in civil engineering Illustrate use of various software such Matlab, Python & R
7											•

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8	CU63B	Mobile and Wireless Network	1000	Kolkata	ICT	Rajeev Chatterjee	08-07-2024	12-07-2024	1	Faculty of CSE, IT Computer Application, Electronics, discipline	After completion of this programme, the participants will be able to <ul style="list-style-type: none"> • Explain the basic concept of mobile and wireless network • Design of Enterprise Wireless LAN • Explain Mobile IP Network • Explain IdAM system
9	CU64A	Symbolic Logic and Mathematics for Computer Science	1500	Kolkata	Contact	Samir Roy	08-07-2024	12-07-2024	1	Any teacher with basic knowledge of Mathematics	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Explain Symbolic Logic and Mathematics for Computer Science • Apply Symbolic Logic and Mathematics in computation • Develop systems based on Symbolic Logic and Mathematics
10	PS27C	Community Development through Technical Institutes	500	Kolkata	ICT	Sheela Yadav Rai	08-07-2024	12-07-2024	1	Faculty and instructors from all Disciplines	After completion of the programme, the participants will be able to : <ul style="list-style-type: none"> • Identify various Community Development Schemes • Explain Feasibility Report • Prepare Reports • Make linkages with organisations

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11	CU65B	Additive Manufacturing of Polymers for Biomedical Applications	1000	Kolkata	Contact	Subrata Mondal	08-07-2024	12-07-2024	1	Chemical Engg., Mechanical Engg., Science, Textiles Engg., Materials Sci. & Engg., Polymer Engg. and allied disciplines	After completion of this programme, participants will be able to: <ul style="list-style-type: none"> • explore the state-of-the-art additive manufacturing research; • describe different types of additive manufacturing processes; • identify property requirements of materials for the biomedical applications; • describe advantages of polymer for the biomedical applications; • fabricate various biomedical implants by using 3-D printing process etc.
12	CU66B	Advance programming in C	1000	Kolkata	Contact	Rajeev Chatterjee	15-07-2024	19-07-2024	1	Faculty of all discipline	After completion of this program, participants will be able to: <ul style="list-style-type: none"> • Demonstrate the working with multi dimensional arrays and structure. • Execute programme with pointers, • Write modular programs using functions, • Execute program using dynamic memory allocations
13	PS28C	Approaches in developing curriculum	500	Kolkata	ICT	Sukanta Kumar Naskar	15-07-2024	19-07-2024	1	Faculty from all disciplines	After completion of the programme, participants will be able to: <ul style="list-style-type: none"> • Analyse the components of a curriculum • Explain different approaches (Including modern approaches in developing curricula • Develop sample curriculum

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14	CU67A	PLC Programming & Applications	1500	Kolkata	Contact	Sagarika Pal	22-07-2024	26-07-2024	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Describe the architecture of PLC • Develop PLC Programs • Apply PLC in developing PID Controller • Apply PLC for various automation systems
15	PS29C	Effective Teaching and Research	500	Kolkata	ICT	Indrajit Saha	22-07-2024	26-07-2024	1	Faculty and Staff of any discipline	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • conduct classes in active and passive teaching modes • apply digital tools in classroom teaching • explain and conduct research for academic development
16	CU68C	Analysis and Design of structures using latest version of a Structural Engineering Software	500	Kolkata	ICT	Santanu Bhanja	22-07-2024	26-07-2024	1	Faculty of Civil, Architecture & allied disciplines	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Identify the role of software in structural analysis and design • Discuss the basic features of a universally accepted software-STAAD.Pro Connect-latest version along with RCDC • Apply IS Codal provisions in analysis, design and detailing - IS 456, 1893, 875, 13920 etc. • Analyse, design and detail real-life multi-storied buildings

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17	CU69C	Geotechnical Investigation Field and Laboratory Testing	500	Kolkata	ICT	Naveen BP	22-07-2024	26-07-2024	1	Faculty and laboratory technicians	After completion of the program, the participants will be able to <ul style="list-style-type: none"> • Demonstrate how to conduct the various types of tests used for soil testing. • Demonstrate experiment of soil testing with a brief introduction covering the important details of the experiment, the theory, and the purpose for which it is to be performed, • Explain in detail the apparatus required procedure and specimen calculations.
18	CU70B	Drinking Water Treatment Methodology , Monitoring & Control Aspects	1000	Kolkata	ICT	Sailendra Nath Mandal	22-07-2024	26-07-2024	1	Faculty and Staff of any discipline	After completion of the programme the participants will be able to acquire – <ul style="list-style-type: none"> • Illustrate knowledge of basic concept of different parameter and treatment techniques of Drinking water • Demonstrate skill of online demonstration of different device, performing experiments, interpreting results, preparing test report, providing laboratory instructions to develop inquiring attitude among the student and evaluation of laboratory performance in related to drinking water testing laboratory, • Demonstrate attitude of live online participation in the laboratory/field.

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							From	To			
19	CU71C	Development of Laboratory Instruction and Manual	500	Kolkata	ICT	Subrata Mondal	22-07-2024	26-07-2024	1	Faculty and instructors from all Disciplines	After completion of this programme, participants will be able to: <ul style="list-style-type: none"> • explore the role of laboratory in student learning; • explore development of laboratory exercise; • explore writing of laboratory report; • explore standard operating procedure (SoP) in laboratory; • explore safety management in laboratory etc.
20	PS30B	NEP 2020: Implementation in Higher Educational Institutes	1000	Kolkata	e-STTP	Urmila Kar	22-07-2024	26-07-2024	1	Faculty members and Technicians from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Explain the New vision and major reforms identified in NEP 2020 • Identify the issues and challenges in implementation of NEP 2020 for HEIs • Prepare Institutional Development Plan (IDP)
21	CU72B	Electronic Devices and High-K Dielectric Materials	1000	Kolkata	Hybrid	Niladri Pratap Maity	22-07-2024	26-07-2024	1	Faculty members/Scientists/ Staffs of ECE/EE/CSE/IT/EE E/E&TC /Physics and related subject	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Discuss basic of Electronic Devices • Follow MOSFET Modeling • Plan for Nanodevice Modeling • Select alternation Materials for nanodevices • Explain leakage effects • Follow interface charges

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22	PS31A	Pedagogy Based on Technology Enabled Learning	3000	Kolkata	Contact	Subrata Chattopadhyay	22-07-2024	02-08-2024	2	Faculty of all disciplines	<p>After completion of the programme, the participants will be able to</p> <ul style="list-style-type: none"> • Identify the attributes of good and effective teaching. • Create attention and motivation in class room management • Explain the technology enabled learning (synchro and asynchro) and case studies • Explain with active learning • Introduce problem based learning techniques • Explain the utility of instructional media and its advantages • Apply the computer as instructional media and its advantages and limitations • Explain the courseware • Develop the courseware • Discuss different types of computer assisted instruction (CAI) • Apply the software in teaching and learning process • Give example of a model class with CAI • Suggest strategies to promote creativity and critical thinking in teaching-learning process • Apply techniques for appropriate assessment and evaluation • Explain teachers' occupational health • Promote teaching engineering skill • Discuss values and ethics in teaching • Guide the students for projects • Execute research in higher technical education • Discuss the learning management system and Moocs
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23	CU73B	Design and Analysis of Algorithms	1000	Kolkata	Contact	Samir Roy	29-07-2024	02-08-2024	1	Any teacher with basic knowledge of Mathematics and computer programming	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Design algorithms to solve computational problems • Analyse a given algorithms • Explain how to design and analyse algorithms
24	CU74B	Industrial Instrumentation using PLC and Labview	1000	Kolkata	Hybrid	Soumitra Kumar Mandal	29-07-2024	02-08-2024	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges in Electrical Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Instrumentation Engineering	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Discuss fundamentals of computer-aided measurement systems and control • Explain Programmable Logic Controller programming • Discuss Distributed Control System • Implement LABVIEW Applications in Industrial Instrumentation
25	PS49C	Use of Advanced Teaching Tool in Teaching	500	Kolkata	ICT	Mithu Dey	29-07-2024	02-08-2024	1	Faculty and instructors from all Disciplines	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Demonstrate the advanced E tool for teaching • Use the Etool in teaching • Select the suitable tool • Use of suitable teaching method for the students

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26	CU75C	Fundamental and Applications of Nanomaterials	1000	Kolkata	ICT	Subrata Mondal	29-07-2024	09-08-2024	2	Faculty From All Disciplines	<p>After completion of the programme, the participants will be able to</p> <ul style="list-style-type: none"> • explore the concept of nanotechnology; • describe the fundamental of nanoscale materials' properties; • identify various carbon based nanomaterials; • describe applications of nanomaterials in various fields; • explain the nano toxicology and nano safety etc.
27	CU76C	Deep Learning using PYTHON	1000	Kolkata	Contact	Chandan Chakraborty	29-07-2024	09-08-2024	2	Faculty of CSE/ECE/EE/IT and Allied Disciplines	<p>After completion of the programme, the participants would be able to</p> <ul style="list-style-type: none"> • Discuss fundamental concepts in deep learning, including ANN, CNN model architectures, activation functions, and optimization algorithms etc. • Explore advanced techniques such as transfer learning to leverage pre-trained models for specific tasks. • Demonstrate proficiency in using popular deep learning frameworks such as TensorFlow or PyTorch. • Deploy deep learning models for various applications, including image recognition, natural language processing, and more.

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28	PS32C	Essentials of resilient pedagogy	500	Kolkata	ICT	Habiba Hussain	05-08-2024	09-08-2024	1	Teachers Of Polytechnics, Engg. Colleges & All Higher Educational Institutes	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Explain the need for a pedagogy that will withstand disruption in a learning environment • Engage students in learning using active learning techniques • Weigh the considerations in using digital tools in instruction • Minimise the challenges in learner involvement
29	CU78B	Network Infrastructure and Cloud Security	1000	Kolkata	Contact	Rajeev Chatterjee & Ranjan Dasgupta	05-08-2024	09-08-2024	1	Faculty of CSE, IT Computer Application, Electronics, Discipline	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Explain the concept of Computer Network and Internetwork • Illustrate Principles of Security • Describe ISO27001: 2013 • Demonstrate Network infrastructure elements • Explain Security Issues of Structure Cloud • Explain the concept of network security • Enlighten Application level security
30	CU79C	Basic Concepts of Artificial Intelligence	500	BBSR	Contact	Samir Roy	05-08-2024	09-08-2024	1	Any teacher with basic knowledge of Mathematics and computer programming	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Explain the basic concepts of Artificial Intelligence • Apply Basic Concepts of Artificial Intelligence in intelligent systems • Develop intelligent computational systems
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32	PS34C	Outcome Based Accreditation and NBA	500	Kolkata	ICT	Urmila Kar	05-08-2024	09-08-2024	1	Faculty members and Technicians from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • explain the need for and features of Outcome Based Education (OBE) • justify the requirement of Outcome Based Accreditation (OBA) • identify parameters for OBA • explain the features of Outcome Based Curriculum (OBC) • identify outcome based learning-teaching and assessment processes • explain the process of preparing self-assessment report (SAR) for Accreditation by NBA
33	PS35A	Advanced Pedagogy	3000	Kolkata	ICT	Nirmal Kumar Mandal	5/08/2024	16-08-2024	2	Faculty of all disciplines	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Identify the need for Advanced Pedagogy • Explain different Advanced Pedagogy Approaches • Explain the quality issues in Technical Education and the Role of Teachers • Discuss recent trends in curriculum design • Map outcomes to learning activities • Practice a few active learning techniques • Engage students in complex problem-solving and critical thinking • Design tools for assessing learning • Incorporate technology in teaching to enhance the teaching-learning process Plan teaching for Education 4.0

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							From	To			
34	CU77B	Machine Learning for Civil Engineering	2000	Kolkata	ICT	Naveen BP	12-08-2024	23-08-2024	2	Faculty And Laboratory Technicians	After completion of the programme, the participants will be able to design pile foundations and pile caps
35	CU81C	Word Processing with LaTeX	500	Kolkata	ICT	Kinsuk Giri	12-08-2024	16-08-2024	1	Faculty and staff from all Disciplines	On completion of the programme the participants will be able to <ul style="list-style-type: none"> • Demonstrate Word Processing Tools • Describe the fundamentals LaTeX programming • apply LaTeX for preparing scientific and non-scientific documents
36	CU80C	Air, Water Pollution – Impact on Environment & Public Health	500	Kolkata	ICT	Sailendra Nath Mandal	12-08-2024	16-08-2024	1	Faculty and Staff of any discipline	After completion of the programme the participants will be able to gain and develop <ul style="list-style-type: none"> • Illustrate knowledge of basic concept of Air pollution, Water pollution and impact on human health, • Demonstrate skill of handling conventional and modern sophisticated equipment, preparation of laboratory instruction sheets, interpreting experimental results, providing laboratory instruction such as to develop in enquiring attitude among students, preparing related test reports, Demonstrate attitude of hands-on-working in the laboratory/field. (Plant Visit)

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37	CU82B	Hydraulics and Hydraulic Machines	2000	Kolkata	ICT	Dipankar Bose	19-08-2024	30-08-2023	2	Faculty members with specialization ME,CE, AE, Production Engineering	After completion of the the programme the participants will be able to <ul style="list-style-type: none"> • discuss classification and properties of fluid • state principles of hydrostatics and buoyancy • explain the principle of dynamics of flow • explain the concept of flow through pipes and open channel flow • describe working principles of hydraulic machines
38	CU83B	Advanced Industrial Automation	1000	Kolkata	ICT	Sagarika Pal	19-08-2024	23-08-2024	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion of the programme, the participant will be able to <ul style="list-style-type: none"> • Explain Conventional control techniques for industrial automation • Describe complex controls such as ratio, cascade, feed forward etc. • Develop programme on PLC and DCS for process automation • Explain SCADA systems for various process control systems
39	CU86C	Object Oriented Software Design using C++	500	Kolkata	Contact	Rajeev Chatterjee & Samir Roy	19-08-2024	23-08-2024	1	Faculty of CSE, IT Computer Application, Electronics, discipline	After completion of the the programme the participants will be able to <ul style="list-style-type: none"> • Create an Object-Oriented Model of a software, • Use of UML for Software Design • Write a Program in C++ to solve a computational problem • Compile, debug and execute a program in C++ • Apply objects, classes, inheritance, polymorphism etc. to implement object oriented programming.

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40	PS36C	Induction Training	1000	Kolkata	Contact	Sheela Yadav Rai	19-08-2024	30-08-2024	2	Faculty of all disciplines	<p>After completion of the programme, the participants will be able to</p> <ul style="list-style-type: none"> • Interpret the aspects of curriculum for implementation, monitoring and evaluation. • Suggest with justification, ways and means for ensuring ethical behaviour by teachers. • Demonstrate Communication skills for improving effectiveness of teaching learning. • Prepare instructional plan for classroom, laboratory, workshop and industry-based instruction. • Relate the classroom delivery with relevant assignments, tests and other activities for reinforcement of learning. • Create effective learning environment utilizing instructional technology resources, digital tools, online platforms and Social media. • Design Direct and Indirect assessment tools. • Solve problem creatively. • Undertake Research to improve the various sub-components of technical education system. • Prepare action plan for improvement of institutional performance.

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							From	To			
41	MGT06C	Managerial Skills for Technical Teachers and staff	500	Kolkata	ICT	Sukanta Kumar Naskar	19-08-2024	23-08-2024	1	Faculty and support staff from technical institutes	After completion of the programme, participants will be able to: <ul style="list-style-type: none"> • Demonstrate the managerial skill effectively • Identify managerial skills of a teacher
42	CU87B	Machine Learning with R Programming	1000	Kolkata	Hybrid	Chandan Chakraborty	26-08-2024	30-08-2024	1	Faculty of CSE/ECE/EE/IT and Allied Disciplines	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Explore concepts of machine learning and its engineering applications, • Explain supervised and unsupervised ML models and algorithms, • Demonstrate various techniques for performance evaluation of ML models, • Explore basics of R programming and its implementation for ML algorithms with Applications.
43	CU88C	AutoCAD for Engineers	500	Kolkata	Contact	Mithu Dey	26-08-2024	30-08-2024	1	Faculty of all disciplines	After completion of the the programme the participants will be able to <ul style="list-style-type: none"> • Explain different commands of the Software • Draw the 2D and 3D • Use of AutoCAD in Engg. And Science
44	PS37B	Writing research paper and Ph.D thesis	1000	Kolkata	ICT	Rayapati Subbarao	26-08-2024	30-08-2024	1	Faculty of all disciplines	After completion of the programme, the participants will be able to: <ul style="list-style-type: none"> • Identify stages in thesis writing. • Discuss the results in a refined way. • Identify the scope of a thesis. • Derive conclusions from the plots and contours made. • Communicate a paper in their area of research.

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45	PS38C	Utilisation of Instructional Media in Teaching Learning Process	500	Kolkata	Contact	Subrata Chattopadhyay	26-08-2024	30-08-2024	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Explain the utility of instructional media • Describe the types of instructional media and its advantages • Use computer as instructional media and its advantages and limitations • Illustrate the courseware • Classify the Different types of courseware • Apply Computer assisted instruction (CAI) • Explain the features and types of CAI • Design a model class with CAI
46	PS39B	Entrepreneurship Development	1000	BBSR	Contact	Subrata Mondal	26-08-2024	30-08-2024	1	Faculty of all disciplines	After completion of this programme, participants will be able to: <ul style="list-style-type: none"> • explore concept of entrepreneurship; • identify internal and external factors for entrepreneurship; • explore characteristics of an entrepreneur; • explore entrepreneurial motivation and barrier; • explore stages in entrepreneur process; • explore research commercialization; • explore technology business incubation Centre etc.
47	PS33C	Engineering Pedagogy	500	Kolkata	e-STTP	Nirmal Kumar Mandal	26-08-2024	30-08-2024	1	Faculty and laboratory technicians from all Disciplines	After completion of the programme the participants will be able to <ul style="list-style-type: none"> • Teach technical subjects effectively in different domain and level of learning Set question papers in different domain and level of learning

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48	CU84B	Introduction to Data Security	1000	Kolkata	ICT	Indrajit Saha	26-08-2024	30-08-2024	1	Faculty and instructors from CSE, IT, BCA, MCA, ECE, EE, ME, CIVIL	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> describe the fundamentals of Data Security demonstrate how to maintain the privacy of computer data explain network security in classroom
49	CU89B	Analysis and Design of Shallow Foundations	1000	Kolkata	ICT	Naveen BP	02-09-2024	06-09-2024	1	Faculty and Laboratory Technicians	After completion of the the programme the participants will be able to <ul style="list-style-type: none"> analyse of Shallow Foundations design shallow isolated, combined, and mat foundation systems to resist vertical and horizontal loads coming from various superstructures
50	CU90C	CAD/CAM	500	Kolkata	Contact	Nirmal Kumar Mandal	02-09-2024	06-09-2024	1	Faculty members and Instructors from Mechanical, Production, &Industrial	After completion of the programme the participants will be able to <ul style="list-style-type: none"> Define automation. Classify automation. Operate automated system.
51	PS40C	Question Paper Generation	500	BBSR	Contact	Dipankar Bose	02-09-2024	06-09-2024	1	Faculty memebers of all disciplines from different technical institutions	After completion of the programme the participants will be able to <ul style="list-style-type: none"> Describe techniques of question paper generation prepare question papers based on Bloom's Taxonomy
52	CU92B	Fundamentals of Soft Computing	2000	Kolkata	Contact	Samir Roy	02-09-2024	13-09-2024	2	Any teacher with basic knowledge of Mathematics and computer programming	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> Design computing systems using techniques of soft computing Develop computing systems using techniques of soft computing Explain principles and techniques of soft computing

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53	CU93C	Microcontroller and Embedded System	500	Kolkata	Hybrid	Soumitra Kumar Mandal	02-09-2024	06-09-2024	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges in Electrical Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Instrumentation Engineering	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Describe Architecture and programming of Microcontroller • Design interfacing circuits for Microcontroller based systems • Develop Microcontroller based projects • Write assembly language programs • Describe Embedded System and it's applications
54	CU94B	Polymer Composites and Nanocomposites	1000	Kolkata	ICT	Subrata Mondal	02-09-2024	06-09-2024	1	Faculty of Chemical Engg., Mechanical Engg., Science, Textiles Engg., Materials Sci. & Engg., Polymer Engg. and allied disciplines	After completion of this programme, participants will be able to: <ul style="list-style-type: none"> • explain the fundamental concept of nanotechnology; • differentiate the microfillers and nanofillers; • explore the fundamental of polymeric composites and nanocomposites; • describe the properties of polymeric composites and nanocomposites; • explain the applications of polymeric composites and nanocomposites etc.
55	CU95C	Problem Solving with PYTHON	500	Kolkata	ICT	Kinsuk Giri	09-09-2024	13-09-2024	1	Faculty of all disciplines	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • learn the grammars of PYTHON language • apply PYTHON to solve problems • use PYTHON for ML and Data Analysis

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56	CU96B	Use of Finite State Machine (FSM) and Petri Net (PN) in SE	1000	Kolkata	Contact	Ranjan Dasgupta	09-09-2024	13-09-2024	1	Teachers of CSE/IT/MCA with teaching/research exposure in SE	After completion of the programme, the participants will be able to: <ul style="list-style-type: none"> • Explain FSM & PN • Design State Diagram using FSM and its benefits • Use of PN in complex systems
57	PS41B	NBA Accreditation for engineering colleges	1000	Kolkata	ICT	Rayapati Subbarao	09-09-2024	13-09-2024	1	Faculty of all disciplines	After completion of the programme, the participants will be able to: <ul style="list-style-type: none"> • Identify the Impact of NBA Accreditation • Prepare Vision, Mission, Program Educational Objectives • Prepare Outcomes and Program Outcomes • Illustrate how to prepare SAR. • Practice Criteria i to x.
58	CU97B	Sensing in Industrial Automation	1000	Kolkata	Contact	Subrata Chattopadhyay	09-09-2024	13-09-2024	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Differentiate sensors, transducers and actuators • Classify different sensors, transducers and actuators in industry • Apply various process control techniques • Explain the concept of Smart sensors in modern instrumentation

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59	SPL16C	Power Electronics Application in Sustainable Energy & E-Transportation Systems	500	BBSR	Contact	Gayadhar Panda	09-09-2024	13-09-2024	1	Faculty of all Disciplines	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Describe the Operation of Power Switches, and Converters • Explain the functional block diagram of microgrid system and their different configurations. • Apply different techniques for improving the performance of microgrid system. • State the operation of E-Transportation System with different charging infrastructure. • Explain the Operation of advanced converters and its application in renewable energy systems
60	PS43B	Designing tools for outcome based assessment (OBA)	1000	Kolkata	ICT	Habiba Hussain	16-09-2024	20-09-2024	1	Teachers of polytechnics, Engg. colleges & all higher educational institutes, also the laboratory technicians.	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Distinguish OBA from traditional assessment • Map questions to different learning outcomes • Decide parameters for CRT • Design table of specifications
61	CU91C	Fundamentals of Machine Learning and Deep Learning	500	Kolkata	ICT	Indrajit Saha	16-09-2024	20-09-2024	1	Faculty from all disciplines	After completion of the program, the participants will be able to <ul style="list-style-type: none"> • describe the fundamentals of Machine Learning (ML) and Deep Learning (DL) • apply ML for clustering, classification and regression explain ML and DL in classroom

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62	CU98B	Analysis and Design of Deep Foundations	1000	Kolkata	ICT	Naveen BP	16-09-2024	20-09-2024	1	Faculty and Laboratory Technicians	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> analyze Shallow and Deep Foundations design shallow and deep foundation systems to resist vertical and horizontal loads from various superstructures, including buildings, bridges, powerplants, etc.
63	PS44C	Effective Training	500	Kolkata	ICT	Sukanta Kumar Naskar	16-09-2024	20-09-2024	1	Faculty from all Disciplines	After completion of the programme, participants will be able to: <ul style="list-style-type: none"> Identify steps in conducting training Design training programme Identify methodology of training programme Assess training programme
64	CU99B	Statistical Methods for Scientific Research	1000	Kolkata	e-STTP	Chandan Chakraborty	23-09-2024	27-09-2023	1	Faculty from all disciplines	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> Discuss overview on data summarization and visualization Explain concept of probability and its various distributions Do correlation and linear/non-linear regression analysis Perform testing of hypothesis for research data analysis Demonstrate with statistical software using SPSS, R.

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65	PS45B	Experiential Learning	1000	Kolkata	ICT	Dipankar Bose	23-09-2024	27-09-2024	1	Faculty members of all disciplines from different technical institutions	After completion of the programme the participants will be able to <ul style="list-style-type: none"> • Explain the concept of Experiential Learning • Illustrate Kolb's Learning Cycle • explain Techniques for Experiential Learning • conduct Experiential Learning Activities
66	CU100B	Laboratory Practice on Civil Engineering Materials	1000	Kolkata	Contact	Mithu Dey	23-09-2024	27-09-2024	1	Faculty from civil and allied branches	After completion of the programme, participants are expected to be able to <ul style="list-style-type: none"> • Explain the physical significance of laboratory tests on Concrete Materials. • Demonstrate to the students on different tests of Concrete Materials • Explain the concrete mix design
67	SPL10C	Applications and Modelling of Smart Materials	500	Kolkata	ICT	Nirmal Kumar Mandal	23-09-2024	27-09-2024	1	Faculty from all disciplines	After attending the programme the participants will be able to <ul style="list-style-type: none"> • Understand the smart materials • Analyse the functions of smart materials Model a smart materials
68	PS46C	Research and Publication Ethics	500	Kolkata	Hybrid	Niladri Pratap Maity	23-09-2024	27-09-2024	1	Faculty members/Staffs of all disciplines	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Define research • Identify different aspects of research. • Appreciate the four elements of writing a research thesis. • Follow Research Integrity and Publication Ethic • Follow several ethical issues • Identify Error and Fraud in research • Prepare Database and research metrics • Follow how to publish research outcomes

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69	CU101C	Environmental Pollution and Climate Change	500	BBSR	Contact	Sailendra Nath Mandal	23-09-2024	27-09-2024	1	Faculty and Staff of any discipline	After completion of the programme the participants will be able to gain and develop <ul style="list-style-type: none"> • Illustrate knowledge of basic concept of Air pollution, Water pollution, Noise pollution, Light pollution and Climate change , • Demonstrate skill of handling conventional and modern sophisticated equipment, preparation of laboratory instruction sheets, interpreting experimental results, providing laboratory instruction such as to develop in enquiring attitude among students, preparing related test reports, • Demonstrate attitude of hands-on-working in the laboratory/field. (Plant Visit)
70	PS47C	Role of Technical Institutions in Community Development	500	Kolkata	contact	Sheela Yadav Rai	23-09-2024	27-09-2024	1	Faculty and Instructors from all discipline	After completion of the programme the participants will be able to : <ul style="list-style-type: none"> • Identify various Community Development Schemes • Explain Feasibility Report • Prepare Planning Report • Make the Curricula • Estimate the Training cost

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71	CU102C	Development of Laboratory Instruction and Manual	500	Guw	Contact	Subrata Mondal	23-09-2024	27-09-2024	1	Faculty of all disciplines	After completion of this programme, participants will be able to: <ul style="list-style-type: none"> • explore the role of laboratory in student learning; • explore development of laboratory exercise; • explore writing of laboratory report; • explore standard operating procedure (SoP) in laboratory; • explore safety management in laboratory etc.
72	CU103A	LABVIEW Programming and IoT Applications	1500	Kolkata	Hybrid	Sagarika Pal	23-09-2024	27-09-2024	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After attending the programme the participant will be able to <ul style="list-style-type: none"> • Explain features of LABVIEW • Create VI files • Apply VI files in various fields • Apply Data Acquisition System in LABVIEW • Apply LBVIEW for IoT and Industrial Automation
73	PS48B	Academic Writing and Tools	2000	Kolkata	Contact	Kinsuk Giri, Samir Roy, & Rayapati Subbarao	23-09-2024	04-10-2024	2	Faculty from all disciplines	After completion of the programme, the participants will be able to <ul style="list-style-type: none"> • Identify the different ways of presenting an academic report. • Detail the steps involved in writing a research article. • Obtain the skills of writing a thesis or research report. • Explain the ways of using different tools for writing a thesis. • Apply different tools for academic purposes.

Prog. Code: CU – Contant Update, PS – Professional Skill, MGT – Management

Prog. Mode: Contact - Offline, ICT – Online, Hybrid – Both online and offline

Venue: Kolkata Main Campus, BBSR – Bhubaneswar, Odisha Extension Centre, Guw – Guwahati, Assam Extension Centre.

Programme Calendar 2024-25

Application Form Link: <http://www.nitttrkol.ac.in/download/Application%20Form.pdf>

Application Form Link: <https://payments.billdesk.com/bdcollect/bd/nittkolkata/10074>

Sl. No.	Prog. Code	Programme Title	Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date		Week	Target Participant / Group	Programme Outcomes
							From	To			
74	CU104B	Numerical modeling and analysis of structure for dynamic loading	1000	Kolkata	Contact	Mithu Dey	30-09-2024	04-10-2024	1	Faculty from civil and allied branches	After completion of the programme, participants are expected to be able to <ul style="list-style-type: none">• Explain the concept of dynamic analysis• Develop the mathematical model of SDOF and MDOF system• Solve the SDOF and MDOF system for dynamic loading

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Prog. Mode: Contact - Offline, ICT – Online, Hybrid – Both online and offline

Venue: Kolkata Main Campus, BBSR – Bhubaneswar, Odisha Extension Centre, Guw – Guwahati, Assam Extension Centre.

Programme Calendar 2024-25

Application Form Link: <http://www.nitttrkol.ac.in/download/Application%20Form.pdf>

Application Form Link: <https://payments.bildesk.com/bdcollect/bd/nittkolkata/10074>

GENERAL INSTRUCTIONS TO THE PARTICIPANTS

- Please send your application 20 days (for Contact Mode FDP) and preferably 7 days (for ICT/Online mode FDP) before the commencement of the programme.
- Applicants may send their applications by email/Post/Application Link (see institute's website: <http://www.nitttrkol.ac.in>) **along with payment details for each programme.**
- Participants are requested to submit only one application for a particular Faculty Development Programme (FDP)/ Short Term Training Programme (STTP).
- Selected participants will be received confirmation mail from the Academic Affairs. **Without prior confirmation nobody will be allowed to attend the training programme.**
- Participants are advised to complete the registration formalities before 9:30 a.m. on the first day of the programme at the Academic Affairs of NITTTR, Kolkata for offline programmes.
- After completing the registration formalities, you need to report to the respective coordinator(s). Necessary guidance from the Academic Affairs will be given in this respect.
- Last day of the training programme, certificates will be distributed by the coordinator(s) along with a release letter in case of offline courses and to be sent by mail in case of online courses.
- No leave(s) permissible during the training programme, except in case of emergency with submission of evidence of reason.
- The participants will be relieved only on the last day of the programme at 5.30 pm. If participants do not attend the full programme, neither certificate nor TA will be paid to them.
- The participants willing to attend the programmes at Extension Centers should contact the respective Consultant, Extension Centre / Academic Affairs for accommodation confirmation and food facility.
- **Essential Requirements for Certification:** i) Minimum 80% Attendance ii) Achievement of Minimum 40% of Total Assessment.
- Training programmes scheduled at extension centres are state specific and open only for respective state participants.
- Participants only from the Government and Government Aided / Government sponsored Institutes will be reimbursed TA as per Institute's rules.
- Participants from North Eastern (NE) States and A&N Islands are entitled to travel by air (economy class) and the same will be reimbursed on production of proof of to and fro travel ticket(s). Tickets are to be purchased from the authorized travel agent of Govt. of India as announced time to time.
- The participants from the provinces other than N.E. states will be reimbursed 3rd AC train or equivalent fare.
- Boarding and Lodging facilities are provided on a sharing basis. Family members are not allowed to stay in the Guest Houses.
- Course Fees will be charged as per the Category of the Training Programme and it can be remitted through NEFT, Bank Transfer or through demand draft drawn in favour of Director, NITTTR, Kolkata payable at Kolkata.

Bank details:

Name of the Bank: State Bank of India, Sector – 1, Salt Lake Branch,
Bank Holder: NITTTR, Kolkata, Bank A/c No.: 00000034181726656,
IFSC Code: SBIN0001612

➤ **Course Fee Details:**

Prog. Code: CU – Contant Update, PS – Professional Skill, MGT – Management

Prog. Mode: Contact - Offline, ICT – Online, Hybrid – Both online and offline

Venue: Kolkata Main Campus, BBSR – Bhubaneswar, Odisha Extension Centre, Guw – Guwahati, Assam Extension Centre.

Programme Calendar 2024-25

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Category of FDP	Category - A	Category - B	Category - C	FREE
Fees per participant per week	Rs. 1500/-	Rs. 1000/-	Rs. 500/-	No fees

- Participants from Private and Self Financed Institutes will not be paid TA. These participants can avail Boarding and Lodging facilities in Executive Hostels, by paying fees Rs. 300/- per bed/day for Accommodation Charge and Meal Charge of Rs. 250/- per day per participant (rate may vary from time to time), working lunch is free.

Processing TA:

- Those who are eligible to reimburse TA should apply in the prescribed form available in the Academic Affairs along with all supporting documents with signature from the course coordinator(s) and submit to the academic section.
- TA will be reimbursed directly to the bank account of the trainee.

Instructions to participants from NE States and A&N Islands regarding purchase of Air Ticket:

Air tickets shall be purchased positively only from the three Authorized Travel Agents (ATAs), namely:

- (a) M/s. Balmer Lawrie & Company Limited (BLCL),
- (b) M/s. Ashok Travels & Tours (ATT),
- (c) Indian Railways Catering and Tourism Corporation Ltd. (IRCTC)

The choice of the travel agent for booking of ticket from the three-authorized travel agents is left open to the Govt. official in case of self-booking, based on convenience and service quality. No agency charges / convenience fees will be paid to these ATAs.

Participants are to choose flight having the **Best Available Cheapest Fare**, where possible for Non-stop flight in a given slot, mentioned below, at the time of booking. They are to retain the print-out of the concerned webpage of the ATAs having flight and fare details for the purpose of the settlement claims.

- (a) On the day of travel in the desired 3 hours' slot of following time band
00:00 hours to 03:00 hours, 03:00 hours to 06:00 hours, 06:00 hours to 09:00 hours, 09:00 hours to 12:00 hours, 12:00 hours to 15:00 hours, 15:00 hours to 18:00 hours, 18:00 hours to 21 :00 hours, 21 :00 hours to 24:00 hours
- (b) With provision of optimizing within 10% price bank, for convenience and comfort.

Henceforth relaxation on account of ignorance/unawareness of these guidelines will not be considered under any condition.

How to Reach NITTTR, Kolkata:

The Institute is located in FC Block, Sector-III in Salt Lake City (near Labony Island). It is well communicated by road with Howrah Railway Station (about 8.1 km via Maniktala Main Road), Sealdah Railway (7.4 km) via Beliaghata Main Road and Broadway Road), Kolkata Railway Station (4.8 km) via Canal Circular Road, Shalimar Station (18.8 km) via Parama Island Maa Flyover, Netaji Subhas Chandra Bose International Airport (11.5 km) via Kazi Nazrul Islam Sarani/VIP Road.