PROGRAMME | 26
CALENDAR | 27

NATIONAL INSTITUTE OF TECHNIAL TEACHERS' TRAINING AND RESEARCH, KOLKATA

(Deemed to be University)
Under Ministry of Education, Govt. of India)
Block – FC, Sector – III, Salt Lake City, Kolkata – 700 106

visit us:
www.nitttrkol.ac.in

VISION

NITTTR Kolkata envisions to be the premier multidisciplinary university for promoting quality technical teacher education, training and research for sustainable development.

MISSION

- ➢ To develop prospective technical teachers and others through Post Graduate, Doctoral and other programmes,
- ➢ To improve the quality of technical teachers and others through training and multidisciplinary, flexible, modular academic programmes,
- ➢ To undertake Educational and Technological Research for developing knowledge driven society,
- ➢ To undertake leadership and capacity building activities for technical teachers, including need based training,
- ➢ To collaborate with other academic and research institutes in both national and international levels,
- ➢ To promote innovation, incubation and entrepreneurship for harnessing technology towards sustainable development.

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. In the year 2024, NITTTR Kolkata awarded the Deemed to be University Status.

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

Preface

Like previous years, National Institute of Technical Teachers' Training and Research (NITTTR) Kolkata has prepared its Programme Calendar for the year 2026-27.

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 Contact and ICT)
5. Hybrid Mode
6. eSTTP

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.

FOCAL ACTIVITIES OF NITTTR Kolkata

- Development of Lab Manuals
- Workshops on Training Need Analysis
- Skill Training for Trainers
- STTPs (Contact & ICT Mode)
- Awareness on NBA Procedure for NE states
- Revision & Development of Curriculum of North Eastern states

NATIONAL INSTITUTE OF TECHNICALTEACHERS' 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

    (b)   Designation   :

    (c)   Department   :

    (d)   Institution   :

    (e)   Institute Address   :

                 Pin:

       State

    (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@nitttrkol.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 From	To	Week	Target Participant / Group	Programme Outcomes
1	PS01A	Advanced Pedagogy	3000	Kolkata	ICT	Nirmal Kumar Mandal	06/04/2026	17/04/2026	2	Faculty members and Research Scholars of all Discipline	After attending the programme the participants will be able to • Use Bloom's Taxonomy in Teaching-Learning Systems • Set question papers in accordance with Bloom's Taxonomy

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2	CU01C	Design and Development of content for e-Learning	500	Kolkata	ICT	Rajeev Chatterjee	06/04/2026	10/04/2026	1	Faculty members and Research Scholars of all Discipline	After going through this program, the participants will be able to: • explain the concept of e-learning, TEL • explain synchronous and asynchronous e-learning models, • explain the various standards available for e-learning, • explain the basis terminologies such as Learning Objects, sharable Content Objects, SCO, • explain and demonstrate ADDIE Model of ISD, • Explain the importance of assessment and item development, • exhibit and demonstrate the process of e-content creation for MOOCs based e-content. • develop e-content chunks / learning object in their own subject domain, and • Exhibit and demonstrate various e-learning tools and technologies.

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3	PS02C	Digital Twin Frameworks for Advanced Engineering Systems	500	Kolkata	ICT	K Venkata Rao	13/04/2026	17/04/2026	1	Faculty and Research scholars from all disciplines	After completion of the program, the participants will be able to • Design and develop hybrid deep learning models • Generate and implement Python code • Develop data acquisition and synchronization frameworks • Evaluate and optimize Digital Twin performance
4	CU02C	Introduction to Coding Theory	500	Kolkata	ICT	Rajeev Chatterjee	13/04/2026	17/04/2026	1	Faculty and Staff members and Research Scholars of all Discipline	After participating in this program, the participants will be able to: • Explain the concepts of information, quality of information, and information entropy. • Demonstrate the working principles and design of AES and DES. • Demonstrate various encoding techniques such as Arithmetic Encoding, Huffman Encoding, Hamming Code, Gray Code, JPEG Encoding Standard, Lempel–Ziv Coding, etc. • Demonstrate the applications of coding techniques in the areas of networking and communication.
5	PS03A	Advanced Pedagogy	3000	Kolkata	ICT	Arpan Kumar Mondal and Sukanta Kumar Naskar	13/04/2026	24/04/2026	2	Faculty members from all discipline	After attending the course the participants will be able to • Explain the need for Advanced Pedagogy • Understand the fundamental strategies of advanced pedagogy • techniques • Explain different Advanced Pedagogy Approaches • Plan instruction • Incorporate different principles for effective delivery and assessment

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6	CU03C	Sustainable & Green Manufacturing for Net-Zero Industry	500	Kolkata	ICT	Deepak Mehra	13/04/2026	17/04/2026	1	Faculty, Technical Staff, PG Students, Reseearch Scholar	After completion of the programme, the participants will be able to • Understand how to reduce pollution and waste in manufacturing. • Use energy and resources efficiently to support Net-Zero goals. • Apply green practices to make industries more sustainable and environment-friendly.
7	PS04C	ICT Tools for Teaching Learning and Assessment	500	Kolkata	ICT	Kinsuk Giri	20/04/2026	24/04/2026	1	Faculty and staff from all disciplines	On successful completion of the programme the participants will be able to • Understand the use of various ICT tools for TL and Assessment • Apply different online tools for TL and online assessment
8	PS05C	Entrepreneurship Development	500	Kolkata	ICT	Subrata Mondal	20/04/2026	24/04/2026	1	Faculty and staff from all disciplines	After attending this programme, participants will be able to: • 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.
9	PS06C	Mentorship	500	Kolkata	ICT	Sukanta Kumar Naskar	20/04/2026	24/04/2026	1	Faculty and staff from all disciplines	After attending the programme, participants will be able to: • Be acquainted with Mentoring Process • Apply various skills that Mentors needs to demonstrate • Be acquainted with various skills required in student mentorship process • Apply various skills required in student mentorship process

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10	PS07C	Accreditation for Polytechnic and Engineering institutes	500	Kolkata	ICT	Rayapati Subbarao	20/04/2026	24/04/2026	1	Faculty of all disciplines	After attending the programme, the participants will be able to • Identify the Impact of NBA Accreditation • Prepare Vision, Mission, Program Educational Objectives • Prepare Outcomes and Program Outcomes • Learn how to prepare SAR. • Practice Criteria i to ix.
11	CU04C	Introduction to Software-Defined Networking (SDN)	500	Kolkata	ICT	Rajeev Chatterjee	20/04/2026	24/04/2026	1	Faculty and Staff Members and Research Scholar of CSE / IT/ECE/ CA and related branches	After participating in this program, the participants will be able to • Explain the concept of SDN, • Demonstrate controller management in SDN, • Exhibit the SD based WAN & Mobile Networks, and • Explain Security issues and Back-up Restoration in SDN.
12	PS08C	Environmental Sustainability	500	Kolkata	ICT	Kunwar Raghbendra Singh and Anil Kumar	20/04/2026	24/04/2026	1	Faculty, Staff Members, Research scholars	Develop a comprehensive understanding of environmental sustainability principles, including climate change, biodiversity conservation, natural resource management, circular economy, and sustainable development goals (SDGs).
13	PS09C	Engineering Laboratory Management & Skill Assessment	500	Kolkata	ICT	Sagarika Pal	20/04/2026	24/04/2026	1	Faculty, staff & Research scholars of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completing the course the participants will be able to • Select the laboratory experiments from curriculum • Prepare laboratory manual • Guide student to perform laboratory experiment • Evaluate the laboratory performance of students • Guide students to achieve skill in the Laboratory • Evaluate skill of students in different domains of learning.

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14	CU05C	Estimation Essentials: From Basics to Best Practices	500	Kolkata	ICT	Naveen BP	27/04/2026	01/05/2026	1	Faculty members from all discipline	After completing the course the participants will be able to • Understand Research Fundamentals – Ability to understand basic concepts, methods, and processes of scientific research. • Identify Research Problems – Ability to formulate research problems and develop suitable hypotheses. • Apply Research Methods – Ability to use appropriate research designs, data collection, and analysis techniques. • Follow Research Ethics – Ability to maintain academic integrity and ethical standards in research work. • Develop Thesis Writing Skills – Ability to prepare and present a well-structured research thesis or dissertation.
15	PS10C	Framework of Problem-Based Learning	1000	Kolkata	E-STTP	Indrajit Saha, Arpan Kumar Mondal, Kinsuk Giri, Sagarika Pal	27/04/2026	08/05/2026	2	Faculty, Staff Members, Research scolars	After attending the course the participants will be able to • Explain The Basic Problem-Solving Strategies In The Classroom • Identify Specific Problems Covering A Particular Area Of Learning • Solve Problems In Various Branches Of Engineering Through Pbl • Analyze The Benefits Associated With Pbl Compared To Conventional Learning
16	PS011A	Advanced Pedagogy	3000	Kolkata	ICT	Arpan Kumar Mondal and Sukanta Kumar Naskar	04/05/2026	15/05/2026	2	Faculty members from all discipline	After attending the course the participants will be able to • Explain the need for Advanced Pedagogy • Understand the fundamental strategies of advanced pedagogy techniques • Explain different Advanced Pedagogy Approaches • Plan instruction • Incorporate different principles for effective delivery and assessment

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17	CU06C	Fundamentals of Green Manufacturing	500	Kolkata	ICT	Nirmal Kumar Mandal	04/05/2026	08/05/2026	1	Mechanical, Production and Industrial	After attending the programme the participants will be able to • Justify Green Manufacturing • Explain standards of Air pollution • Analyse Single Species Ecological Model
18	CU07C	Digital Transformation and Emerging Technologies for 21st Century Institutions	500	Kolkata	ICT	Deepak Mehra	04/05/2026	08/05/2026	1	Faculty, Tech Staff, Research Scholars	After completion of the programme, participants will be able to: • Understand digital transformation strategies for modern institutions. • Adopt emerging technologies (AI, IoT, Cloud) to improve institutional efficiency. • Develop digital-ready systems and leadership skills for 21st-century challenges.
19	CU08C	Sensors and IoT Applications	500	Kolkata	ICT	Sagarika Pal	04/05/2026	08/05/2026	1	Faculty, staff & Research scholars of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completing the course the participants will be able to • Differentiate sensors, transducers and actuators • Explain the operation of different IoT sensors • Explain the communication between sensors and IoT platforms • Apply IoT sensors in various automation fields
20	CU09C	Power Quality problem Assessment and their mitigation in Distribution System	500	Kolkata	ICT	Papia Ray	11/05/2026	15/05/2026	1	Faculty & staff members of Electrical Engg & related disciplines from Degree & Diploma colleges, Industry person, Scientist, Research Scholars	After completion of the program, the participants will be able to • Describe the basic principles and concepts of power quality, types of power quality events, its estimation • Design of filters, types and its need • Apply control algorithm in problem estimation and mitigation • Explain in real time applications

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21	PS12C	Laboratory Safety Management	1000	Kolkata	ICT	Subrata Mondal	11/05/2026	22/05/2026	2	Faculty and Staff of All disciplines	After attending this program, participants will be able to: • Demonstrate The Safety Management In The Laboratory Work Areas; • Evaluate The Risk Assessment For The Hazardous Laboratory Works; • Identify The Emergency And Safety Equipment For Laboratory Works; • Demonstrate Fire Safety Management In The Laboratory Work Areas; • Describe The Waste Management For The Laboratory Etc.
22	PS13C	Environmental Pollution and Health Risks	500	Kolkata	ICT	Sailendra Nath Mandal	11/05/2026	15/05/2026	1	Faculty and Staff of any discipline	After attending the programme the participants will be able to acquire – • knowledge of basic concept of water, air, noise pollution and their analysis • skill of online live 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 water, air, noise pollution laboratory, • attitude of live online lecture and demonstration in the laboratory/field
23	CU10C	Artificial Intelligence: Levels, Applications & Imapact on Technical education	500	Kolkata	ICT	Deepak Mehra and Saurabh Kumar Yadav	11/05/2026	15/05/2026	1	Faculty, Technical Staff, Research Scholars	After completion of the programme, the participants will be able to • Differentiate between Narrow AI, General AI, and Super AI, and analyze their relevance to engineering and technical education. • Utilize AI tools for literature review, data analysis, manuscript preparation, plagiarism checking, and research workflow automation. • Propose curriculum modifications to embed AI awareness and interdisciplinary AI applications into engineering programmes.

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24	CU11C	Accurate Estimation: The Key to Project Success	500	Kolkata	ICT	Naveen BP	11/05/2026	15/05/2026	1	Faculty members from all discipline	Take aways identifying and mitigating wring estimations
25	CU12C	Introduction to Image Processing	500	Kolkata	ICT	Indrajit Saha	18/05/2026	22/05/2026	1	Faculty, Staff Members, Research scolars	After attending the program, the participants will be able to • Describe The Fundamentals Of Image Processing (IP) In MATLAB • Apply MATLAB Commands To Do IP • Explain Image Processing In Classroom
26	PS14C	NBA Accreditation and SAR Preparation	500	Kolkata	ICT	Arpan Kumar Mondal	18/05/2026	22/05/2026	1	Faculty members from all discipline	After attending the course the participants will be able to • Identify the Impact of NBA Accreditation • Prepare Vision, Mission, PEO, and PSO • Prepare CO-PO mapping • Learn how to prepare pre-qualifiers and SAR. • Practice the programme-level criteria • Understand the Washington accord
27	PS15C	Environmental Pollution & Remedies	500	Kolkata	ICT	Kunwar Raghbendra Singh & Anil Kumar	18/05/2026	22/05/2026	1	Faculty, Staff Members, Research scholars	Develop a comprehensive understanding of different types of pollution—air, water, soil, noise, and solid waste pollution—and their sources, characteristics, and impacts on ecosystems and human health.
28	CU13C	MATLAB Applications in Engineering	1000	Kolkata	ICT	Soumitra Kumar Mandal	25/05/2026	05/06/2026	2	Faculty, Staff Members, Research scolars	After attending the programme, the participants will be able to • Understand fundamentals of MATLAB • Implement MATLAB Applications to design Electrical and Electronics Circuits • Explain the different aspect of MATLAB & Simulink • Develop simple model using Simulink • Use MATLAB in analysis, design and simulation of Power Electronics and Control Engineering

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29	PS16C	Induction Training Phase-I	500	Kolkata	ICT	Habiba Hussain	01/06/2026	05/06/2026	1	Faculty Members, Research scholars	After attending the programme the participants will be able to acquire – • Identify the components of an active learning environment • Categorize different stages in experiential learning cycle • Identify activities for the stages of the learning cycle • Plan an active learning session
30	MGT01C	Waste Management	500	Kolkata	ICT	Sailendra Nath Mandal	01/06/2026	05/06/2026	1	Faculty and Staff of any discipline	After attending the programme the participants will be able to acquire – • knowledge of basic concept of solid waste, wastewater, sampling, preservation, analysis, standards, interpretation of result and disposal of wastewater, Solid waste, impact on human health, •skill of online live 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, • attitude of live online lecture and demonstration in the laboratory/field
31	CU14C	Introduction to Quantum Computing	500	Kolkata	ICT	K Venkata Rao	08/06/2026	12/06/2026	1	Faculty, Staff Members, Research scolars from any discipline	After attending the programme, the participants will be able to • Explain qubits, superposition, and entanglement. • Explore the differences between classical and quantum computing. • Apply quantum computing in key engineering applications. • To confidently teach students in quantum computing topics.

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32	PS17A	Advanced Pedagogy	3000	Kolkata	ICT	Habiba Hussain	08/06/2026	18/06/2026	2	Faculty and Staff of any discipline	• Analyse the strategies from basic course • Explain the recent trend in curriculum design • Characterise hybrid mode in teaching • Practice a few active learning techniques • Develop instruction with a blended learning approach • Compare formative and summative assessments • Use technology in learning assessment
33	MGT02C	Supply Chain Resilience & Risk Management in Digital Age	500	Kolkata	ICT	Deepak Mehra	08/06/2026	12/06/2026	1	Faculty, Staff, and Researchers (Mech, Civil, Aero), from allied discipline	After completion of the programme, the participants will be able to • Identify and manage risks in modern supply chains. • Use digital tools (AI, IoT, data analytics) to improve supply chain resilience. • Develop flexible and adaptive supply strategies to handle disruptions effectively.
34	CU15C	Estimation Strategies for Construction Projects	500	Kolkata	ICT	Naveen BP	08/06/2026	12/06/2026	1	Faculty members from all discipline	Learning industry standard practices
35	CU16C	Fundamentals of Machine Learning and Deep Learning	500	Kolkata	ICT	Indrajit Saha	15/06/2026	19/06/2026	1	Faculty, Staff Members, Research scholars	After attending the program, the participants will be able to • describe the fundamentals of Machine Learning (ML) and Deep Learning • apply ML for clustering, classification and regression • explain machine learning in classroom

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36	CU17C	Introduction to UN Sustainable Development Goals	500	Kolkata	ICT	Subrata Mondal	15/06/2026	19/06/2026	1	Faculty members from all discipline	After attending this programme, participants will be able to: • explain 17 UN SDGs; • explore the emergence and development of the SDGs; • understand how the different SDGs are interrelated; • acquire an understanding of how the SDGs relate to addressing global challenges; • understand how the SDGs are implemented etc.
37	MGT03C	Managerial Skills for Technical Teachers and staff	500	Kolkata	ICT	Sukanta Kumar Naskar	15/06/2026	19/06/2026	1	Faculty and staff members from all discipline	After attending the training programme participants will be able to: • Demonstrate the Managerial Skills effectively • Identify Managerial Skills of a teacher • Apply Managerial Skills for managing day to day activities
38	CU18C	Energy Management Systems and Smart Grid		Kolkata	ICT	Soumitra Kumar Mandal	15/06/2026	19/06/2026	1	Faculty, Staff Members, Research scolars	After attending the programme, the participants will be able to • Describe Energy Management System • Study IoT Based Energy Management System • Explain Energy Audit in Energy Management System • Learn Smart Grid Technology • Study operation and control of Micro Grid System
39	PS18C	Outcome-Based Education & Effective Curriculum Design	500	Kolkata	ICT	Saurabh Kumar Yadav and Deepak Mehra	15/06/2026	19/06/2026	1	Faculty (Mech, Prod, Design), Tech Staff, M.Tech/Ph.D. Scholars from all discipline	After completion of the programme, the participants will be able to • Design curriculum based on measurable learning outcomes. • Align teaching, learning, and assessment methods with course outcomes. • Evaluate and improve curriculum effectiveness using outcome-based approaches.

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40	CU19C	Renewable Energy Sources and Emerging Technologies	500	Kolkata	ICT	Sheela Yadav Rai	15/06/2026	19/06/2026	1	Faculty, Staff Members, Research Scholars from all discipline	After attending the programme the participants will be able to: • Understand Energy Sources and their utilization • Explain Environmental aspects of electric energies generation • Understand the scope of Solar Thermal Conversion and Solar Photovoltaic system • Describe about wind energy, Geothermal energy and Biomass • Apply Non-conventional energies through various agencies viz.WBREDA
41	CU20C	AI-Driven Decision Making for Engineering Managers	500	Kolkata	ICT	Deepak Mehra	06//07/2026	10/07/2026	1	Faculty, Tech Staff, M.Tech/Ph.D. Scholars,students	After completion of the programme, participants will be able to: • Apply AI tools and data analytics to support engineering decisions. • Interpret data insights to improve efficiency, quality, and productivity. • Make faster and smarter decisions using AI-based predictive models.
42	CU21C	Soft Computing in Distributed Power Generation System	500	Kolkata	**ICT**	Papia Ray	06/07/2026	10/07/2026	1	Faculty & staff members of Electrical & Electronics Engg & related disciplines from Degree & Diploma colleges, Industry person, Scientist,Research Scholars	After completion of the program, the participants will be able to • Describe the basic operation of distributed power generation, type of generators and power conversion system. • Apply control schemes in distributed power generation system with one source or multiple sources. • Explain real time applications

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43	CU22C	Functional Textiles and Protections	500	Kolkata	ICT	Subrata Mondal	06/07/2026	10/07/2026	1	Chemical Engg. Mechanical Engg., Science, Textiles Engg., Materials Sci. & Engg., Polymer Engg. and allied disciplines	After attending this program, participants will be able to: • explain the concept of functional textiles. • explain heat and moisture management in the clothing. • explore the UV blocking textiles. • describe the nanotechnology applications for the functional textiles. • explore the medical textile etc.
44	PS19C	Steps To Write A Thesis And Research Article	500	Kolkata	ICT	K Venkata Rao	06/07/2026	10/07/2026	1	Faculty and Research scolars from Mechanical/Production Engineering	After completion of the program, the participants will be able to • Define research problem • Evaluate relevant papers in literature review • Apply relevant modeling and analysis approaches in results and discussion • Draft a research article having connectivity and readability • Write thesis in logical order
45	PS20C	Human Values and Profession	500	Kolkata	ICT	Mithu Dey	06/07/2026	10/07/2026	1	Faculty members from all discipline	After attending the program, participants are expected to be able to • Explain the concept of Human Values, Ethics and Attitude • Identify issues and challenges in ethical practice • Identify the ways and means for ensuring ethical behavior by teachers • Practice the roles of 'Technical Teachers as Professionals' in establishing the; Guru-Shisya Parampara' in present context • Follow the human values ethics for sustainable defelopment

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46	CU23C	Data Analytics	500	Kolkata	e-STTP	Chandan Chakraborty	06/07/2026	10/07/20	1	Faculty, Staff Members, Research scholars	After attending the program, the participants will be able to • Understand core concepts and techniques in data analytics. • Apply statistical and analytical methods to real-world datasets. • Explore neural network models • Use of data cleaning, visualization, and analysis.
47	CU24C	Mastering Estimation: Techniques and Trends	500	Kolkata	ICT	Naveen BP	08/07/2026	12/07/2026	1	Faculty members from all discipline	Take aways understanding real life examples and improving
48	PS21C	Approaches in Developing Curriculum	500	Kolkata	ICT	Sukanta Kumar Naskar	13/07/2026	17/07/2026	1	Faculty and research scholars	After attending the training programme, participants will be able to: • Analyze the components of a curriculum • Understand the different approaches (Including modern approaches in developing curricula • To develop sample curriculum • Appreciate features of AICTE model curriculum
49	CU25C	Induction Training and Laboratory Development	500	Kolkata	ICT	Soumitra Kumar Mandal	13/07/2026	17/07/2026	1	Faculty, Staff Members, Research scolars	After attending the programme, the participants will be able to • Explain Planning Teaching and learning • Curriculum design and development • E-learning • Describe Professional Ethics • Explain Laboratory Development
50	CU26C	Digital integration in Teaching-Learning	500	Kolkata	ICT	Habiba Hussain	13/07/2026	17/07/2026	1	Faculty Members, Staff and Research Scholars from all discipline	• Analyse the digital shift and its need • Integrate subject matter with appropriate technology • Plan sessions for students for self-learning using technology

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51	CU27C	Power Generation from Energy Resources	500	Kolkata	ICT	Sheela Yadav Rai	13/07/2026	17/07/2026		Faculty, Staff Members, Research Scholars from all discipline	After attending the programme the participants will be able to • Understand potential sources of conventional energies for power generation • Describe potential sources of non-conventional energies for power generation • Understand environmental aspects of power generation • Appreciate about various power projects
52	PS22C	Effective Teaching and Research	500	Kolkata	ICT	Indrajit Saha	20/07/2026	24/07/2026	1	Faculty, Staff Members, Research scholars from all discipline	After attending the program, the participants will be able to • conduct classes in active and passive teaching modes • apply digital tools in classroom teaching • explain and conduct research for academic development
53	CU28C	Refresher course in Mechanical Engineering	500	Kolkata	ICT	Arpan Kumar Mondal	20/07/2026	31/07/2026	1	Faculty members from Mechanical Engineering and similar fields	After attending the course the participants will be able to • Classify the various advanced manufacturing processes • Explain the working principle of various additive and subtractive manufacturing processes • Explain various advances in Mechanical Engineering

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54	PS23C	Induction Training: Phase I	1000	Kolkata	ICT	Subrata Mondal	20/07/2026	31/07/2026	2	Faculty, Staff Members from All disciplines	After attending this programme, participants will be able to: • explore duties and responsibilities of a faculty; • explore instructional objectives and planning; • introduce concept of active learning; • explore various methods of teaching; • explore classroom management; • explore NEP 2020; • explore communication skills; • explore the importance of quality in education; • explore aims of laboratory in technical education; • explore professional ethics; • explore innovation, incubation and entreprenureship development; • explore question banking and assessment methods; • explore e-learning in teaching etc.
55	PS24C	OBE based NBA Accreditation and SAR preparation	500	Kolkata	ICT	Rayapati Subbarao	20/07/2026	24/07/2026	1	Faculty of all disciplines from ploytechnics, engineering colleges/ Universities	After attending the programme, the participants will be able to: • Identify the Impact of NBA Accreditation • Prepare Vision, Mission, Program Educational Objectives • Prepare Outcomes and Program Outcomes • Learn how to prepare SAR. • Practice Criteria i to x.

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56	PS25C	Public Health Engineering Laboratory	500	Kolkata	ICT	Sailendra Nath Mandal	20/07/2026	24/07/2026	1	Faculty and Staff of any discipline	After attending the programme the participants will be able to acquire – • knowledge of basic concept of different parameter of Public Health Engineering Laboratory • skill of online live 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 Public Health Engineering Laboratory, • attitude of live online lecture and demonstration in the laboratory/field
57	PS26C	Research Paper & Thesis Writing with AI Tools and MS Word	500	Kolkata	ICT	Saurabh Kumar Yadav and Deepak Mehra	20/07/2026	24/07/2026	1	Faculty, Staff, Research Scholars from any discipline	After completion of the programme, participants will be able to: • Structure research papers effectively • Use AI tools for literature review & language refinement • Format manuscripts per journal/conference standards
58	CU29C	Wastewater Treatment	500	Kolkata	ICT	Kunwar Raghbendra Singh & Anil Kumar	20/07/2026	24/07/2026	1	Faculty, Staff Members, Research Scholars from any discipline	Participants will gain comprehensive understanding of wastewater characteristics, treatment processes (physical, chemical, and biological) and design principles, enabling them to apply sustainable and efficient wastewater management practices in teaching, research, and professional applications
59	CU30C	PLC, SCADA and Labview Applications		Kolkata	ICT	Soumitra Kumar Mandal	27/07/2026	31/07/2026	1	Faculty, Staff Members, Research Scholars from all disciplines	After attending the programme, the participants will be able to • Understand fundamentals of computer-aided measurement systems and control • Explain Programable Logic Controller programming • Discuss Distributed Control System • Implement LABVIEW Applications in Industrial Instrumentation

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60	PS27C	Excellence Through Teaching and Research	500	Kolkata	ICT	Rayapati Subbarao	03/08/2026	07/08/2026	1	Faculty, Staff Members, Research Scholars from all disciplines	At the end of the programme, the participants will be to: • interpret the working principle and features of steam engines, turbines and condensers. • explain the basics of I.C. Engines and analyze the performance. • identify the functions of gas turbines and power plants.
61	CU31C	Robotics	500	Kolkata	ICT	K Venkata Rao	03/08/2026	07/08/2026	1	Faculty, Staff Members, Research scholars from any discipline	After completion of the program, the participants will be able to • Describe anatomy of industrial robots • Explain kinematics of industrial robots • Describe sensors and AI used in robots • Explain trajectory planning in different applications
62	CU32C	Advanced Industrial Control using PLC, DCS & SCADA	500	Kolkata	ICT	Sagarika Pal	03/08/2026	07/08/2026	1	Faculty, staff & Research scholars of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After attending the programme the participants will be able to • 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
63	CU33C	Refreshers course on Structural Dynamics	500	Kolkata	ICT	Mithu Dey	10/08/2026	15/08/2026	1	Faculty members from civil and allied discipline	After attending the program, participants are expected to be able to • Explain the concept of structural dynamics. • Establish the EOM for a problem • Expalin the free and forced vibration analysis • Find the response of stcrutures under dyanmic laod. • Demonstrate the diffrence between the static and dynamics loading effect.

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64	CU34C	MATLAB Applications in Engineering	1000	Kolkata	ICT	Soumitra Kumar Mandal	10/08/2026	21/08/2026	2	Faculty, Staff Members, Research scolars	After attending the programme, the participants will be able to • Understand fundamentals of MATLAB • Implement MATLAB Applications to design Electrical and Electronics Circuits • Explain the different aspect of MATLAB & Simulink • Develop simple model using Simulink • Use MATLAB in analysis, design and simulation of Power Electronics and Control Engineering
65	PS28C	Role of Technical Institutions in Community Development	500	Kolkata	ICT	Sheela Yadav Rai	10/08/2026	14/08/2026	1	Faculty, Staff Members, Research Scholars from all discipline	After attending the programme the participants will be able to : • Know various Community Development Schemes • Understand Feasibilty Report • Prepare Planning Report • Make the Curricula • Estimate the Training cost
66	CU35C	Introduction to Data Science	500	Kolkata	ICT	Indrajit Saha	17/08/2026	21/08/2026	1	Faculty, Staff Members, Research scholars	After attending the program, the participants will be able to • analyze the data using various statistical methods in MATLAB • visualize the data for better understanding • develop prediction model for real-life data driven problems in MATLAB
67	MGT04C	Strategic Management issues in Technical Instittions	500	Kolkata	ICT	Sukanta Kumar Naskar	17/08/2026	21/08/2026	1	Faculty, Officers, staff members from all discipline	After attending the programme the participants will be able to: • Understand the concept of Strategic Management • Apply the concept of Strategic Planning (SP) • Identify steps of Strategic Planning • Apply different tools of Management effectively

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68	PS29C	Research Methodology	500	Kolkata	ICT	Niladri Pratap Maity	17/08/2026	21/08/2026	1	Faculty and Staff members, Research Scholars from all discipline	After attending the programme, the participants will be able to • Understand research • Follow step by step research methodologies • Define ethics and research integrity • Understand different ethical issues • How to write research papers • Follow funding opportunities for • different sponsored projects • Prepare project proposals
69	CU36C	AI in Mechanical Engineering	500	Kolkata	ICT	Nirmal Kumar Mandal	17/08/2026	21/08/2026	1	Faculty and Staff members, Research Scholars from all discipline	After attending the programme the participants will be able to • Use of AI algorithms in Design • Use of AI in predictive maintenance • Use of AI in smart manufacturing (Industry 4.0) • Use of AI Robotics and Automation

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70	MGT05C	Disaster Risk Management	500	Kolkata	ICT	Anil Kumar and Kunwar Raghvendra Singh	17/08/2026	21/08/2026	1	Faculty, Environment/Energy /climate change/Policy Managment Professionals, State Government officials from SDMAs, Urban & Housing, Energy department and Environment Forest & Climate Change Department and others	By the end of the programme, participants will be able to: • Apply the Sendai Framework and national/state DRM policies to plan prevention, mitigation, preparedness, response and recovery. • Conduct a quick risk assessment (hazard, exposure, vulnerability, capacity) and prioritise interventions. • Design community-centred early warning and preparedness systems, including drills and last-mile communication. • Plan emergency operations: Incident Command System (ICS), resource mapping, logistics, and coordination across departments. • Integrate risk financing options (contingency funds, insurance, relief norms) and develop a continuity plan for institutions. • Develop a practical DRM Action Plan for a campus/ULB/district with indicators and timelines.
71	CU37C	R Programming	500	Kolkata	ICT	Kinsuk Giri	17/08/2026	21/08/2026	1	Faculty,Tech Staff, M.Tech/Ph.D. Scholars from all discipline	On successful completion of the programme the participants will be able to • understand and explain the different aspects of R • apply R to solve basic problems • use R for visualizations

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72	PS30C	Modern Teaching Practices with Technology in Education	500	Kolkata	ICT	Saurabh Kumar Yadav and Deepak Mehra	17/08/2026	21/08/2026		Faculty,Tech Staff, M.Tech/Ph.D. Scholars from all discipline	After completion of the programme, the participants will be able to • Implement active learning & flipped classroom models • Integrate digital/AI tools for engagement and assessment • Align methods with NEP 2020
73	MGT06C	Waste Management	500	Kolkata	ICT	Kunwar Raghbendra Singh Singh & Anil Kumar	17/08/2026	21/08/2026	1	Faculty, Staff Members, Research scolars	Participants will gain comprehensive knowledge of waste types, regulatory frameworks, waste characterization methods, sustainable treatment technologies, circular economy principles, and integrated waste management strategies, enabling them to design research initiatives and implement effective institutional and community-level waste management practices.
74	PS31C	Assessment tools and Question Banking	500	Kolkata	ICT	Sagarika Pal	17/08/2026	21/08/2026	1	Faculty, staff & Research scholars of all disciplines	After attending the programme the participants will be able to • Define Measurement, Assessment, Evaluation and Test • Construct the test items • Design the table of Specification • Prepare the question paper • Analyse the question paper • Develop question Bank
75	**CU38C**	Application of Artificial Intelligence & Machine Learning in Engineering field	1000	Kolkata	**ICT**	Papia Ray	17/08/2026	21/08/2026	1	Faculty & staff members of all disciplines from Degree & Diploma colleges, Industry person, Scientist, Research Scholars	After attending this program, participants will be able to: • Develop the basic concept of Artificial Intelligence • Explain the various applications of Artificial Intelligence • Incorporate the advanced techniques of Artificial Intelligence in Engineering field

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76	PS32C	Induction Training and Development of Question Bank in Engineering		Kolkata	ICT	Soumitra Kumar Mandal	31/08/2026	04/09/2026	1	Faculty, Staff Members, Research scholars from all discipline	After attending the programme, the participants will be able to • Study Teaching and learning for employability • Explain Planning Teaching and learning • Explain Supervising projects and dissertations • Describe Key aspects of teaching and learning in engineering • Develop Question Bank in Engineering
77	**CU39C**	Computational intelligence techniques and Wide Area Measurement Systems	500	Kolkata	**ICT**	Papia Ray	07/09/2026	11/09/2026	1	Faculty & staff members of Electrical & Electronics Engg & related disciplines from Degree & Diploma colleges, Industry person, Scientist, Research Scholars	After completion of the program, the participants will be able to • Explain the basics of wide area measurement systems and computational intelligence techniques • Incorporate the various advanced techniques for assessment of events in wide area measurement systems • Implement the knowledge of modern signal processing tools for accurate estimation of the disturbance event for dynamic system security
78	CU40C	Introduction to Digital Forensics	500	Kolkata	ICT	Rajeev Chatterjee	07/09/2026	11/09/2026	1	Faculty and Staff Members and Research Scholar of CSE / IT/ECE/ CA and related branches	After participating in this program, the participants will be able to: • Explain the concept of Digital Fraud • Demonstrate the vulnerabilities related to digital eco system. • Describe various steps of Forensics activities cloud deployment models, • Illustrate various steps for prosecution in the court of law.

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79	PS33C	Innovation, Entrepreneurship & Technology Commercialization	500	Kolkata	ICT	Saurabh Kumar Yadav and Deepak Mehra	07/09/2026	11/09/2026	1	Faculty, Tech Staff, M.Tech/Ph.D. Scholars,students from all discipline	After completion of the programme, participants will be able to: • **Identify innovative ideas** and evaluate their commercial potential. • Develop business models and startup strategies for technology-based ventures. • Apply technology commercialization processes from prototype to market launch.
80	PS34C	Induction Training	1000	Kolkata	ICT	Sagarika Pal	07/09/2026	18/09/2026	2	Faculty, staff & Research scholars of all disciplines	After completing the programme the participants will be able to • Identify the essential components of teaching learning system • Develop the concept of Curriculum • Decide learning outcomes of specific course • Plan instruction • Manage classroom behaviour • Formulate the lesson plan • Decide tools for learning assessment • Design Table of specification • Prepare effective question paper • Evaluate skill in the laboratory and project work
81	CU41C	Estimating & Costing of Non-conventional Energies	500	Kolkata	ICT	Sheela Yadav Rai	07/09/2026	11/09/2026		Faculty, Staff Members, Research Scholars	After attending the programme the participants will be able to : • Describe various type of Non-conventional Energies Sources • Understand the scope of Solar energy, Solar Thermal Conversion, Solar Collector, Wind Energy • Estimating & costing of various energies

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82	CU42C	Sensing in Industrial Automation		Kolkata	ICT	Subrata Chattopadhyay	07/09/2026	11/09/2026	1	Faculty, Staff Members, Research scholars from all discipline	After completing the course the participants will be able to • 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
83	PS35C	Applications of AI in Pedagogy	500	Kolkata	ICT	Sukanta Kumar Naskar and K.Venkata Rao	14/09/2026	18/09/2026	1	Faculty, Staff Members, Research scholars from all discipline	After attending the programme participants will be able to: • Develop concept of Curriculum development • Manage the Classroom effectively • Identify Instructional Objectives • Develop Lesson Plan • Identify modern AI tools in Pedagogy • Use modern AI tools in Pedagogy effectively
84	MGT07C	Energy Management and Audit in Industries		Kolkata	ICT	Soumitra Kumar Mandal	14/09/2026	18/09/2026		Faculty, Staff Members, Research scholars from all discipline	After attending the programme, the participants will be able to • Describe Energy Conservation Act and Policies • Explain IoT Based Energy Management System • Use Energy Audit in Energy Management System • Develop Energy Action Planning • Explain Energy Audit in Industries

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85	CU43C	Advance water and wastewater Analysis	500	Kolkata	ICT	Sailendra Nath Mandal	14/09/2026	18/09/2026	1	Faculty and Staff of any discipline	After attending the programme the participants will be able to acquire – • knowledge of different drinking and wastewater testing parameters, equipment, methods of testing , different standards and impact on human health, • 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, • attitude of live online lecture and demonstration in the laboratory/field
86	CU44C	Fundamentals of Soft Computing	500	Kolkata	ICT	Indrajit Saha	21/09/2026	25/09/2026	1	Faculty, Staff Members, Research scholars from all discipline	After attending the program, the participants will be able to • describe the fundamentals of Soft Computing • explain the fundamentals of Fuzzy Logic (FL), Evolutionaly Computing (EC) and Artificial Neural Network (ANN) • explain FL, EC and ANN in classroom
87	CU45C	Data Analytics with PYTHON	500	Kolkata	ICT	Kinsuk Giri	21/09/2026	25/09/2026	1	Faculty, Staff Members, Research scholars from all discipline	On successful completion of the programme the participants will be able to • Develop an understanding of basic concepts of Data science. • Explore an ability to analyse data from a statistical perspective. • Explain and implement Data Visualization Techniques. • Demonstrate Classification and clustering processes. • Get an exposure on basics of PYTHON Programming • Develop familiarity with the PYTHON data science ecosystem for class room teaching, practicing and project based learning.

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National Level Short Term Training Program (STTP) / Faculty Development Programme (FDP) – CONTACT/ HYBRIDE MODE AT KOLKATA

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1	CU46C	Transforming Waste into Clean Energy: Building a Sustainable Future	500	In-House	Contact	Naveen BP	06/04/2026	10/04/2026	1	Faculty and staff members from all discipline	Critical knowledge of challenges of waste management at the individual (household) and community scale (market, municipality, etc.) and state-of-the-art knowledge about resource circularity to tackle waste management
2	CU47C	Advanced NLP and Its Applications	500	Kolkata	Hybrid	Jagadeesh M S	13/04/2026	17/04/2026	1	Faculty, Staff Members, Research scolars from any discipline	After completion of the program, the participants will be able to • Understand advanced NLP concepts and architectures. • Apply deep learning models for various text processing tasks. • Implement NLP techniques using modern frameworks (e.g., Transformers). • Develop applications such as sentiment analysis, chatbots, and text summarization. • Evaluate and optimize NLP models for real-world deployment.
3	CU48C	Application of **MATLAB** for Mechanical Engineering		Kolkata	Hybrid	Saurabh Kumar Yadav	13/04/2026	17/04/2026	1	Faculty, Technical Staff, PG Students, Reseearch Scholar	After completion of the programme, the participants will be able to • Utilize MATLAB to simulate dynamic systems and perform finite element analyses • Develop and analyze control system models and create insightful visualizations Solve practical engineering and machine design problems using MATLAB toolboxes

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4	CU49C	Semiconductor : Devices, Applications and Prospects	500	Kolkata	Hybrid	Niladri Pratap Maity	20/04/2026	24/04/2025	1	Faculty members/Scientists/ Staffs of ECE/EE/CSE/IT/EEE/E&TC/EIE /Physics /Electronics and related subject	After attending the programme, the participants will be able to • Understand Basic of Semiconductor • Semiconductor Device Modeling Method • 2T MOS Modeling • MOSFET Modeling • Semiconductor Materials • Identify Semiconductor Devices • Modern Semiconductor Devices • Follow up High-k Dielectric materials • Follow recent govt. schemes for Semiconductor Mission
5	CU50C	Engineering Drawing using AutoCAD	500	Kolkata	Hybrid	Mithu Dey	20/04/2026	24/04/2026	1	Faculty members from all discipline	After completion of the program, the participants will be able to • Draw the 2D drawing • Draw the 3D drawing Appreciate the features of AutoCAD
6	MGT08C	Management Practice for Safety Engineering	500	Kolkata	Hybrid	Saurabh Kumar Yadav and Deepak Mehra	20/04/2026	24/04/2026	1	Faculty (Mech, Elec, Mechatronics, Civil), Technicians, Project Mentors	After completion of the programme, the participants will be able to • Identify and evaluate workplace hazards using established techniques (HAZOP, FMEA, JSA) • Conduct comprehensive risk assessments and implement effective emergency response protocols Foster a culture of safety through audits, training, and best-practice initiatives

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7	CU51C	Electric Vehicles Technology and EV Charging Station		Kolkata	Hybrid	Soumitra Kumar Mandal	27/04/2026	01/05/2026	1	Faculty, Staff Members, Research scholars from all discipline	After attending the programme, the participants will be able to • Understand operating principle and characteristics of Electric Vehicle Technology • Describe operation and control of converters • Explain applications of converters in Electric Vehicle • Explain operating principle and characteristics of EV Charging Station
8	CU52C	Industrial Automation	500	Kolkata	Hybrid	Subrata Chattopadhyay	04/05/2026	08/05/2026	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After attending the course, the participants will be able to • Familiar with closed loop control system • Understand the pressure, Temperature, Flow & Level Measurement system • Know hazardous area classification • Utilize the electrical instruments in hazardous area in process plant • Design the conventional complex control system like ratio, cascade, feed forward, selective, override etc. • Apply the control system in distillation column in industry • Know the fundamental of PLC, DCS and SCADA
9	CU53C	VLSI Design	500	Kolkata	Hybrid	Niladri Pratap Maity	04/05/2026	08/05/2026	1	Faculty members/Scientists/ Staffs of ECE/EE/CSE/IT/EEE/E&TC/EIE /Physics /Electronics and related subject	After attending the programme, the participants will be able to • Basic of VLSI Design • Follow Electron Device Modeling • Follow VLSI circuit Design Methodology • Prepare Digital VLSI Design • Basic of different VLSI Design Tools • Identify different CAD tools • Material for Modern IC Design • Follow up High-k Dielectric materials • Follow recent govt. schemes for VLSI Design

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10	CU54C	Laoratory pracice on building material & NDT	500	Kolkata	Hybrid	Mithu Dey	04/05/2026	08/05/2026	1	Faculty members civil and allied discipline	After attending the program, participants are expected to be able to • Explain the physical significance of laboratory tests on Concrete Materials. • Demonstrate to the students on different tests of Concrete Materials • Understand the concrete mix design • Familier with NDT test
11	CU55C	Finite element Based Solution by using python	1000	Kolkata	Hybrid	Saurabh Kumar Yadav	04/05/2026	15/05/2026	2	Faculty, Tech. staff and Research Scholars (Mech, Civil, Aero), and allied discipline	After completion of the programme, the participants will be able to • Demonstrate a solid understanding of FEM fundamentals and formulations for structural and thermal analyses • Implement and run python -based simulations of engineering problems using standard and extended (XFEM) element techniques • Apply FEM and XFEM methods to lubrication case studies, interpreting results for design and performance optimization
12	CU56C	Application of AI/ML for Engineers	1000	Kolkata	Hybrid	K Venkata Rao and MS Jagadeesh	04/05/2026	15/05/2026	2	Faculty, Staff Members, Research scolars from any discipline	After completion of the program, the participants will be able to • Write Python code to solve engineering problems. • Explore the fundamental concepts of Artificial Intelligence. • Develop innovative solutions to various engineering problems. • Apply image processing techniques such as YOLO and SAM. • Use hybrid deep learning techniques to solve complex problems. • Optimize processes and systems for maximum performance. • Develop online modeling and monitoring systems. • Enhance interdisciplinary collaboration and problem-solving skills.

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13	CU57C	Machine Learning with Applications	500	Kolkata	Contact	Chandan Chakraborty	11/05/2026	15/05/2026	1	Faculty, Staff Members, Research scholars from all discipline	After attending the program, the participants will be able to • Understand overview of ML concepts and algorithms. • Apply supervised ML algorithms with applicqtions. • Explore unsupervised techniques to real-world problems. • Evaluate and interpret model performance effectively.
14	CU58C	IP Networking	1000	Kolkata	Contact	Rajeev Chatterjee	11/05/2026	22/05/2026	2	Faculty and Staff Members and Research Scholar of CSE / IT/ECE/ CA and related branches	After participating in this program, the participants will be able to: • Explain the concept of Computer Network and Internetwork, • Demonstrate Network Media and Topology • Identify the various components of Network and Internetwork, • Explain the various protocols in TCP/IP Suite, • Explain the concept of switching and routing, • Demonstrate configuration of the devices such as routers, switches, etc., • Design their own campus wide network and IT infrastructure,
15	PS36C	How to Write Thesis and Research paper	500	Kolkata	Hybrid	Rayapati Subbarao	18/05/2026	22/05/2026	1	Faculty of all disciplines	After attending the programme, the participants will be able to • 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. • Learn how to guide/write M.S/Ph.D thesis. • Communicate a paper in their area of research.

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16	CU59C	ESG-Sustainability Report	500	Kolkata	Hybrid	Anil Kumar and Kunwar Raghvendra Singh	18/05/2026	22/05/2026	1	Faculty, Environment, Climate and Disaster Management Professionals, State Government officials from SDMAs, Urban & Housing, Water Resource and Environment Forest & Climate Change Department and others	Understand ESG Framework – Grasp environmental, social, and governance parameters and their business relevance. Learn Reporting Standards – Explore global frameworks like GRI, SASB, TCFD, and BRSR. Measure & Manage Impact – Assess carbon footprint, social impact, and governance metrics. Integrate ESG Strategy – Develop skills to align business goals with sustainable practices and reporting.
17	PS37C	Latex for Research, Reports and Publications	500	Kolkata	Hybrid	Jagadeesh M S	18/05/2026	22/05/2026	1	Faculty, Staff Members, Research scolars from any discipline	After completion of the program, the participants will be able to • Understand the fundamentals of LaTeX document preparation. • Create structured research papers, reports, and theses using LaTeX. • Manage references and bibliographies using BibTeX. • Format tables, figures, equations, and presentations professionally. • ☐ Prepare journal- and conference-ready manuscripts using standard templates.

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18	CU60C	Medical Instrumentation		Kolkata	Hybrid	Subrata Chattopadhyay	25/05/2026	29/05/2026	1	Faculty of all disciplines	After attending the course, the participants will be able to • To understand Cells, Digestive System, Excretory System, Endocrinology • To describe Origins of electro-physiological signal and their characteristics • To design practical clinical sensors and transducers • To understand the operation of X-ray, Fluoroscopy and Radiography, Pacemaker, Magnetic Resonance Imaging etc. • To explain Electric shock hazards and safety devices
19	CU61C	Hands-on Practices in Additive and Subtractive Manufacturing Processes	1000	Kolkata	Contact	Arpan Kumar Mondal	25/05/2026	05/06/2026	2	Faculty members from Mechanical Engineering and similar fields	After attending the course the participants will be able to • Classify the various additive and subtractive manufacturing processes • Explain the working principle of various additive and subtractive manufacturing processes • Perform independently various additive and subtractive manufacturing processes
20	CU62C	Evolution of Programming: from Procedural to Object Oriented Java	500	Kolkata	Hybrid	Jagadeesh M S	01/06/2026	05/06/2026	1	Faculty, Staff Members, Research scolars from any discipline	After completion of the program, the participants will be able to • Understand the transition from procedural to object-oriented programming. • Compare features of traditional languages and Java. • Apply OOP concepts such as classes, objects, inheritance, and polymorphism. • Develop Java programs using object-oriented principles. • Analyze advantages of Java over procedural programming approaches.

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21	CU63C	Application of Python in Mechanical Engineering	1000	Kolkata	Hybrid	Saurabh Kumar Yadav	01/06/2026	12/06/2026	2	Faculty (Mech, Prod, Design), Tech Staff, M.Tech/Ph.D. Scholars, students	After completion of the programme, the participants will be able to • Utilize Python with NumPy and SciPy to perform numerical computations for mechanical engineering analyses • Simulate dynamic vibration and modal response of mechanical systems using Python-based tools • Develop and analyze heat transfer and other continuum-mechanics models in Python, interpreting the results effectively
22	CU64C	Material Testing (Civil)	500	Kolkata	Contact	Kunwar Raghbendra Singh	08/06/2026	12/06/2026	1	Faculty, Staff Members, Research scolars	Participants will acquire comprehensive knowledge and hands-on skills in testing of civil engineering materials (cement, concrete, soil, aggregates, bitumen), interpretation of relevant standards, and analysis of results to ensure quality control, safety, and durability in construction practices.
23	CU65C	Civil Engineering Laboratory Practice	1000	Kolkata	Contact	Kunwar Raghbendra Singh	15/06/2026	26/06/2026	2	Faculty, Staff Members, Research scholars	Participants will develop practical competence in conducting, supervising, and standardizing civil engineering laboratory experiments, interpreting test results, ensuring quality control and safety compliance, and effectively integrating laboratory practices into teaching and research.

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24	CU66C	Web Technologies and its Applications	500	Kolkata	Contact	Jagadeesh M S	22/06/2026	26/06/2026	1	Faculty and Research scolars from any discipline	After completion of the program, the participants will be able to • Understand fundamentals of modern web technologies. • Design and develop responsive web pages. • Implement client-side and server-side scripting. • Integrate databases with web applications. • Deploy and maintain web-based applications.
25	PS38A	Advanced Pedagogy	3000	Kolkata	Contact	Rayapati Subbarao	22/06/2026	03/07/2026	2	Preferably Female Faculty of all disciplines (Towards women Empowerment)	After attending the programme, the participants will be able to • Identify basics of pedagogy and advanced pedagogy. • Discuss the fundamental aspects of effective learning and teaching. • Identify innovative instructional strategies for effective learning and teaching. • Learn curriculum enrichment and and assessment aspects. • Practice different pedagogical practices to enhance the learning outcomes. • Practice Technology enabled learning.
26	CU67C	Microprocessor and Microcontroller Applications in Automation	500	Kolkata	Hybrid	Soumitra Kumar Mandal	29/06/2026	03/07/2026	1	Faculty, Staff Members, Research scholars from all discipline	After attending the programme, the participants will be able to • Describe Architecture and programming of Microprocessor and Microcontroller • Design interfacing circuits for Microprocessor and Microcontroller based systems • Develop Microprocessor and Microcontroller based projects • Write assembly language programs • Describe Embedded System and it's applications

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27	CU68C	PYTHON Programming	500	Kolkata	Contact	Kinsuk Giri	06/07/2026	10/07/2026	1	Faculty, Staff Members, Research scholars from all discipline	On successful completion of the programme the participants will be able to • understand and explain the different aspects of PYTHON • apply PYTHON to solve problems • use PYTHON for visualizations
28	CU69C	Mechanical Testing of Materials	1000	Kolkata	Contact	Arpan Kumar Mondal	06/07/2026	17/07/2026	2	Faculty members from Mechanical Engineering and similar fields	After completion the programme, the participants will be able to •Classify various mechanical characterization methods. •Explain the principles of various testing processes. •Practice on various testing methods viz. tensile testing, impact testing, hardness testing, metallurgical characterization, tribological characterization, etc.
29	CU70C	Modelling with AUTOCAD and SOLIWORKS	500	Kolkata	Contact	Nirmal Kumar Mandal	13/07/2026	17/07/2026	1	Faculty, Staff Members, Research scholars from all discipline	After attending the programme the participants will be able to • Use various drafting and editing tools Model 3D parts using AUTOCAD and SOLIWORKS

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30	CU71C	Non-Conventional Energy	500	Kolkata	Hybrid	Subrata Chattopadhyay	15/06/2026	19/06/2026	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After attending the course the participants will be able to • Understand different types of non conventional energy sources and their applications. • Understand solar energy, Utilization of it, Principles involved in solar energy. • Explore the concepts involved in wind energy • Illustrate Tidal and wave energy and explain the operational • Understand the Geothermal energy.
31	MGT09 C	Disaster Risk Reduction and Management	500	Kolkata	Hybrid	Anil Kumar and Kunwar Raghbendra Singh	15/06/2026	19/06/2026	1	Faculty, Environment, Climate and Disaster Management Professionals, State Government officials from SDMAs, Urban & Housing, Water Resource and Environment Forest & Climate Change Department and others	To Develop Comprehensive Understanding of Disaster Risk Concepts and Frameworks To Analyze Institutional and Policy Frameworks for Disaster Governance To Explore Disaster Preparedness, Early Warning Systems, and Community Engagement To Evaluate Post-Disaster Response, Recovery, and Build Back Better Approaches

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32	PS39C	Air, Water, Noise Pollution and Human Health	500	Kolkata	Hybrid	Sailendra Nath Mandal	15/06/2026	19/06/2026	1	Faculty and Staff of any discipline	After attending the programme the participants will be able to gain and develop • knowledge of basic concept of Air, Water, Noise pollution and impact on human health, • 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, • attitude of hands-on-working in the laboratory/field. (Plant Visit)
33	CU72C	Application of finite element method in engineering using advanced software	1000	Kolkata	Hybrid	Mithu Dey	18/06/2026	25/06/2026	2	Faculty and staff members from all discipline	After attending the programme, the participants will be able to • Explain the concept of structural analysis • Apply the diffenet method of strxuturala analysis. • Apply the FEM for problem solving • Handle the FEM based software. Solve the engineering problem using this software
34	CU73C	Machine Learning and Its Real Time Applications	500	Kolkata	Hybrid	Jagadeesh M S	06/07/2026	10/07/2026	1	Faculty, Staff Members, Research scolars from any discipline	After completion of the program, the participants will be able to • Understand Core Machine Learning Concepts • Implement Machine Learning Models Using Python • Prepare and Preprocess Data for Machine Learning • Apply ML Learning Algorithms • Handle Real-World Machine Learning Challenges • Enhance Career Opportunities in AI & Data Science

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Sl. No.	Prog. Code	Programme Title	Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date From	To	Week	Target Participant / Group	Programme Outcomes
35	PS40C	Advanced Padagogy	3000	Kolkata	Hybrid	Subrata Chattopadhyay	13/07/2026	24/07/2026	2	Faculty of all disciplines	After completing the course the participants will be able to • Prepare lesson Plan • Design Curriculum • Develop Instructional media • Suggest strategies to promote creativity in teaching-learning process • Apply techniques for appropriate assessment and evaluation • Introduce problem based learning techniques
36	CU74C	Integrated Circuit (IC) Design	1000	Kolkata	Hybrid	Niladri Pratap Maity	20/07/2026	31/07/2026	2	Faculty members/Scientists/ Staffs of ECE/EE/CSE/IT/EEE/E&TC/EIE /Physics /Electronics and related subject	After attending the programme, the participants will be able to • Basic of IC Design • Follow Electron Device Modeling • Follow IC circuit Design Methodology • Prepare Digital IC Design • Basic of different IC Design Tools • Identify different CAD tools • Material for Modern IC Design • Follow up High-k Dielectric materials • Follow recent govt. schemes for IC Design
37	CU75C	Testing of Pavement Materials	500	Kolkata	Hybrid	Mithu Dey	20/07/2026	24/07/2026	1	Faculty members from civil and allied discipline	After attending the program, participants are expected to be able to • Explain the physical significance of laboratory tests on pavements Materials. • Demonstrate to the students on different tests of pavement Materials • Understand the Marshal stability test

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

Programme Calendar 2026-27

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Sl. No.	Prog. Code	Programme Title	Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date From	To	Week	Target Participant / Group	Programme Outcomes
38	CU76C	MATLAB & LABVIEW Applications in Engineering	500	Kolkata	Hybrid	Sagarika Pal	20/07/2026	24/07/2026	1	Faculty, staff & Research scholars of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After attending the programme the participant will be able to • Use MATLAB commands, SIMULINK, Control system tool Box • Develop GUI files for interaction with MATLAB Toolbox • Explain features of LABVIEW • Create VI files • Apply VI files in various fields • Apply Data Acquisition System in LABVIEW • Develop LABVIEW programming in various real time applications
39	PS41C	Academic Mentorship	500	Kolkata	Hybrid	Habiba Hussain	27/07/2026	31/07/2026	1	Faculty Members, Research scholars	• Redefine their roles and ethical boundaries • Demonstrate active listening for effective mentoring • Identify mentoring styles • Guide students towards goal setting
40	CU77C	LLMs and its Applications	500	Kolkata	Hybrid	Jagadeesh M S	10/08/2026	14/08/2026	1	Faculty and Staff members from CSE and its allied disciplines	After completion of the program, the participants will be able to • Understand the fundamentals and architecture of Large Language Models (LLMs). • Apply LLMs for text generation, summarization, and question answering. • Implement prompt engineering techniques for effective results. • Integrate LLM APIs into real-world applications. • Evaluate ethical, security, and societal implications of LLM deployment.

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41	CU78C	Engineering and Environmental Chemistry Laboratory	500	Kolkata	Hybrid	Sailendra Nath Mandal	10/08/2026	14/08/2026	1	Faculty and Staff of any discipline	After attending the programme the participants will be able to gain and develop • knowledge of basic component of Engineering and Environmental Chemistry Laboratory, • 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, • attitude of hands-on-working in the laboratory/field. (Plant Visit)
42	CU79C	MATLAB programming for mechanical engineers with generative AI	500	Kolkata	Hybrid	Saurabh Kumar Yadav	10/08/2026	14/08/2026		Faculty, Tech Staff, M.Tech/Ph.D. Scholars from allied discipline	After completion of the programme, participants will be able to: • Use LLMs for MATLAB code generation & debugging • Automate analysis & visualization tasks • Accelerate prototyping of engineering applications
43	CU80C	Advanced Machine Learning with Python	500	Kolkata	Contact	Chandan Chakraborty	17/08/2026	21/08/2026	1	Faculty, Staff Members, Research Scholars from all discipline	After attending the program, the participants will be able to • Analyze and implement advanced ML techniques such as Deep Learning. • Explore Generative Adversarial Networks (GAN). • Compare and select models based on performance metrics and validation strategies. • Deploy and monitor machine learning models in real-world Python-based environments.

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Sl. No.	Prog. Code	Programme Title	Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date From	To	Week	Target Participant / Group	Programme Outcomes
44	CU81C	Fundamental and Applications of Nanomaterials	500	Kolkata	Contact	Subrata Mondal	17/08/2026	21/08/2026	1	Faculty, Staff Members, Research scholars from all discipline	After attending this program, participants will be able to: • 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
45	PS42C	Research Methodology and Thesis Writing	500	In-House	Contact	Naveen BP	17/08/2026	21/08/2026	1	Faculty members from all Core Engineering disciplines	After attending the programme, the participants will be able to • Understand research • Follow step by step research methodologies • Define ethics and research integrity • Understand different ethical issues • How to write research papers • Follow funding opportunities for • different sponsored projects Prepare project proposals
46	CU82C	Polymer Composites and Nanocomposites	500	Kolkata	Contact	Subrata Mondal	07/09/2026	11/09/2026	1	Faculty of Chemical Engg. Mechanical Engg., Science, Textiles Engg., Materials Sci. & Engg., Polymer Engg. and allied disciplines	After attending this program, participants will be able to: • 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.

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47	CU83C	Application of Instructional Media in Teaching Learning Process	500	Kolkata	Hybrid	Subrata Chattopadhyay	17/08/2026	21/08/2026	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After attending the course the participants will be able to • Understand the utility of instructional media • Know the types of instructional media and its advantages • Familiar with the computer to be used as instructional media and its advantages and limitations • Understand the courseware • Classify the Different types of courseware • Application of Computer assisted instruction • Know the feathers of CAI • Explanation of different types of CAI • A model class with CAI
48	PS43C	Leading with EQ	500	Kolkata	Hybrid	Habiba Hussain	17/08/2026	21/08/2026	1	Faculty Members, Staff members, Research scholars	• Identify emotional triggers for self-awareness • Analyse the levels in leadership • Demonstrate active listening • Explore practical steps towards resilience
49	CU84C	Full stack Java Development	500	Kolkata	Hybrid	Jagadeesh M S	31/08/2026	04/09/2026	1	Faculty, Staff Members, Research scolars from any discipline	After completion of the program, the participants will be able to • Understand full stack architecture and components. • Develop responsive front-end and Java-based back-end applications. • Integrate databases using JDBC/ORM frameworks. • Design and implement RESTful APIs. • Deploy and manage full stack Java applications.

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Sl. No.	Prog. Code	Programme Title	Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date From	To	Week	Target Participant / Group	Programme Outcomes
50	CU85C	Semiconductor : Devices, Applications and Prospects	500	Kolkata	Hybrid	Niladri Pratap Maity	07/09/2026	11/09/2026	1	Faculty members/Scientists/ Staffs of ECE/EE/CSE/IT/EEE/E&TC/EIE /Physics /Electronics and related subject	After attending the programme, the participants will be able to • Understand Basic of Semiconductor • Semiconductor Device Modeling Method • 2T MOS Modeling • MOSFET Modeling • Semiconductor Materials • Identify Semiconductor Devices • Modern Semiconductor Devices • Follow up High-k Dielectric materials • Follow recent govt. schemes for Semiconductor Mission
51	CU86C	CAD/CAM	500	Kolkata	Hybrid	Nirmal Kumar Mandal	07/09/2026	11/09/2026	1	Mechanical, Production, &Industrial	After attending the programme the participants will be able to • Explain automation. • Design components. • Operate CNC Machines
52	CU87C	Application of AutoCAD in Engineering &basic sciences	500	Kolkata	Hybrid	Mithu Dey	07/09/2026	11/09/2026	01	Faculty members from all discipline	After attending the program, participants are expected to be able to • Know the different commands of the Software • Draw the 2D and 3D • Appreciate the use of AutoCAD in Engg. And Science Field
53	PS44C	Designing Question papers-Assessment for Learning		Kolkata	Hybrid	Habiba Hussain	21/09/2026	25/09/2026	1	Faculty Members, Staff members, Research scholars	• Identify emotional triggers for self-awareness • Analyse the levels in leadership • Demonstrate active listening • Explore practical steps towards resilience

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54	CU88C	Nature-Inspired Optimization: for real world application of Artifical intelligence	500	Kolkata	Hybrid	Saurabh Kumar Yadav	21/09/2026	25/09/2026		Faculty, Tech Staff, M.Tech/Ph.D. Scholars,students from allied discipline	After completing this program, participants will be able to: • Explain how nature-inspired techniques model and solve complex AI problems. • Design and tune genetic algorithms for optimization scenarios in engineering and data science. • Develop and analyze particle swarm, ant colony, and bee colony algorithms.
55	MGT10 C	Waste Management	500	In-House	In-house	Naveen BP	21/09/2026	25/09/2026	1	Faculty members from all discipline	Critical knowledge of challenges of waste management at the individual (household) and community scale (market, municipality, etc.) and state-of-the-art knowledge about resource circularity to tackle waste management

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National Level Short Term Training Program (STTP) / Faculty Development Programme (FDP) AT BHUBANESWAR EXTENSION CENTRE

Sl. No.	Prog. Code	Programme Title	Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date From	To	Week	Target Participant / Group	Programme Outcomes
1	BBSR-01	Climate Risk Management	500	BBSR	Contact	Anil Kumar and Kunwar Raghvendra Singh	20/04/2026	24/04/2026	1	Faculty, Staff, Professionals and Research Scholars for All Disciplines	After attending the programme, participants will be able to: • To develop a foundational understanding of climate science and its interlinkages with disaster risk, including concepts of hazard, vulnerability, and resilience. • To critically analyze global and national climate policy frameworks, including the Paris Agreement, carbon pricing mechanisms, and India's NAPCC and SAPCCs. • To examine adaptation strategies, nature-based solutions, and best practices in disaster preparedness for building climate resilience across vulnerable sectors. • To explore technological innovations, carbon markets, and financial mechanisms that drive low-carbon development and sustainable mitigation pathways.
2	BBSR-02	Essentials of Institutional Management	500	BBSR	Contact	Sukanta Kumar Naskar	25/05/2026	29/05/2026	1	Faculty, Staff, Professionals and Research Scholars for All Disciplines	After attending the programme, participants will be able to: • Identify the components of Institutional Management • Apply the Institutional Management components effectively • Correlate the Institutional Management components with Institutional objectives

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Sl. No.	Prog. Code	Programme Title	Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date From	To	Week	Target Participant / Group	Programme Outcomes
3	BBSR-03	Cyber Security	500	BBSR	Contact	Rajeev Chatterjee	08/06/2026	12/06/2026	1	Faculty and Staff Members and Research Scholar of CSE / IT/ECE/ CA and related branches	After participating in this program, the participants will be able to: • Explain the concept of Cyber World and Cyber Space • Demonstrate Network infrastructure elements • Explain the concept of network security • Describe cyber security standard • Explain the importance of cloud security
4	BBSR-04	AI &ML for Engineering	500	BBSR	Contact	Nirmal Kumar Mandal	22/06/2026	26/06/2026	1	Faculty, Staff, Professionals and Research Scholars for All Disciplines	After attending the programme the participants will be able to • Acquire skill related to problem solving and decision making • Enable the machines to adopt new data and environments • Predict and forecast the future outcomes • Allow the systems to be better as more data becomes available.
5	BBSR-05	Research Ethics and Publication Procedure	500	BBSR	Contact	Niladri Pratap Maity	29/06/2026	03/07/2026	1	Faculty and Staff members from all discipline	After attending the programme, the participants will be able to • Define Ethics • Identify different aspects of research. • Appreciate the four elements of writing a research thesis with Ethics. • 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 with Ethics • Research Publication procedure

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Sl. No.	Prog. Code	Programme Title	Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date From	To	Week	Target Participant / Group	Programme Outcomes
6	BBSR-06	Introduction to Cloud Computing	500	BBSR	Contact	Rajeev Chatterjee	06/07/2026	10/07/2026	1	Faculty and Staff Members and Research Scholar of CSE / IT/ECE/ CA and related branches	After participating in this program, the participants will be able to: • • Explain the various concept related to cloud computing • • Illustrate the characteristics of Cloud Computing • • Explain various cloud computing models • • Describe various cloud deployment models, • •Explain the importance of cloud security
7	BBSR-07	AI-Powered Entrepreneurship & Startup Strategy	500	BBSR	Contact	Saurabh Kumar Yadav	20//07/2026	24/07/2026	1	Faculty, Staff and Research scholars from all discipline	After completion of the programme, participants will be able to: • Identify and validate AI-- Use AI tools for market research & business model design • Optimise funding pitches with AI-assisted analysis • Develop AI-driven go-to-market strategies
8	BBSR-08	OBE – the pathway for contemporary educators	500	BBSR	Hybrid	Habiba Hussain	03/08/2026	07/08/2026	1	Faculty Members, Staff members	After attending this program, participants will be able to: • Define learning outcomes at different levels • Map curriculum with course learning outcomes • Connect learning activities with assessment tasks
9	BBSR-09	Additive Manufacturing of Polymers for Biomedical Applications	500	BBSR	Contact	Subrata Mondal	10/08/2026	14/08/2026	1	Faculty, Staff and Research scholars from allied disciplines	After attending this program, participants will be able to: • 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.

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10	BBSR-10	Designing Competency-Based & Skill-Oriented Curriculum	500	BBSR	Contact	Deepak Mehra	17/08/2026	21/08/2026	1	Faculty, Tech Staff, M.Tech/Ph.D. Scholars,students	After completion of the programme, participants will be able to: - Design competency-based curriculum aligned with industry skills and standards. - Develop outcome-focused learning activities to enhance practical skills. - Create assessment methods that measure knowledge, skills, and competencies effectively.
11	BBSR-11	Laboratory Tests on Concrete and Bitumen	500	BBSR	Contact	Naveen BP	07/09/2026	11/09/2026	1	Faculty and Technical Staff and research scholars from allied discipline	Participants will be trained in the standard procedures, technical importance

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National Level Short Term Training Program (STTP) / Faculty Development Programme (FDP) AT GUWAHATI EXTENSION CENTRE

Sl. No.	Prog. Code	Programme Title	Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date From	To	Week	Target Participant / Group	Programme Outcomes
1	GUW-01	Geotechnical Investigation Field and Laboratory Testing	500	Guwahati	Contact	Naveen BP	25/05/2026	29/05/2026	1	Faculty, Laboratory Technicians and Research Scholars	Participants will be trained in the standard procedures, technical importance
2	GUW-02	Cyber Security	500	Guwahati	Contact	Rajeev Chatterjee	01/06/2026	05/06/2026	1	Faculty and Staff Members and Research Scholar of CSE / IT/ECE/ CA and related branches	After participating in this program, the participants will be able to: • Explain the concept of Cyber World and Cyber Space • Demonstrate Network infrastructure elements • Explain the concept of network security • Describe cyber security standard • Explain the importance of cloud security.
3	GUW-03	Renewable Energy Resources and Artificial intelligence for Efficient Utilization	500	Guwahati	Contact	Papia Ray	08/06/2026	12/06/2026	1	Faculty & staff members of all disciplines from Degree & Diploma colleges, Industry person, Scientist, Research Scholars	After completion of the program, the participants will be able to • Describe the basic principles of energy conversion, types of renewable energy system, advantages and its need • Apply AI control algorithm in power conversion and extraction of power. • Explain real time applications of various renewable energy-based systems
4	GUW-04	Educational visit to Drinking and Wastewater Treatment Plant & Laboratory	500	Guwahati	Contact	Sailendra Nath Mandal	29/06/2026	03/07/2026	1	Faculty and Staff of any discipline	After attending the programme the participants will be able to gain and develop– • knowledge of different advance unit operation of drinking water and wastewater treatment plant, • skill of live demonstration of industrial equipment for water and wastewater treatment, preparation of industrial visit reports • attitude of hands-on-working in the laboratory/field. (Plant Visit)

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Sl. No.	Prog. Code	Programme Title	Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date From	To	Week	Target Participant / Group	Programme Outcomes
5	GUW-05	Climate Change and Disaster Risk	500	Guwahati	Contact	Anil Kumar and Kunwar Raghvendra Singh	20/07/2026	24/07/2026	1	Faculty, Staff, Professionals and Research Scholars for All Disciplines	After participating in this program, the participants will be able to: • By the end of the programme, participants will be able to: Explain the science of climate change and link it to changing hazard patterns (heat, flood, drought, cyclone, landslide). • Interpret global and regional warming scenarios (1.5°C/2.0°C/3.5°C) and translate them into local risk drivers (exposure, vulnerability). • Analyse historical climate–hazard data to identify trends, thresholds and compound risks (e.g., flood-then-drought). • Use basic tools (risk matrices, GIS overlays, simple water/heat balance sheets) to screen climate and disaster risk for a district/campus. • Prepare a short Climate & Disaster Risk Profile for a chosen area, highlighting priority risks and risk pathways. • Communicate risks effectively to stakeholders using clear visuals and plain-language summaries.
6	GUW-06	Introduction to Cloud Computing	500	Guwahati	Contact	Rajeev Chatterjee	03/08/2026	07/08/2026	1	Faculty and Staff Members and Research Scholar of CSE / IT/ECE/ CA and related branches	After participating in this program, the participants will be able to: • Explain the various concept related to cloud computing • Illustrate the characteristics of Cloud Computing • Explain various cloud computing models • Describe various cloud deployment models, • Explain the importance of cloud security.

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7	GUW-07	Innovative Teaching– Learning & Assessment Strategies	500	Guwahati	Contact	Deepak Mehra	10/08/2026	14/08/2026		Faculty, Staff, and Research Scholars from all disciplines	After completing this program, participants will be able to: • Explain how nature-inspired techniques model and solve complex AI problems. • Design and tune genetic algorithms for optimization scenarios in engineering and data science. • Develop and analyze particle swarm, ant colony, and bee colony algorithms.
8	GUW-08	Higher Education in the Era of Artificial Intelligence	500	Guwahati	Contact	Saurabh Kumar Yadav	14/09/2026	18/09/2026	1	Faculty, Staff, and Research Scholars from all disciplines	After completion of the programme, participants will be able to: • Adapt pedagogy to AI rich learning environments • Incorporate AI literacy into curriculum • Address ethical & practical implications of AI in education
9	GUW-09	Green Skills and Sustainable Developments	500	Gauwahati	Contact	Subrata Mondal	21/09/2026	25/09/2026	1	Faculty, Staff, and Research Scholars from all disciplines	After attending this programme, participants will be able to: • explore pollution control; • explore renewable energy; • explore waste managmnet; • explore UN sustanable development goals; • explore precession farming; • explore circular economy; • explore green skills to support a sustainable and resource effiecent society etc.

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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 Assesment.

➢ 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

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, Extension Centre, Guw – Guwahati, Extension Centre.

Application Form Link: http://www.nitttrkol.ac.in/download/Application%20Form.pdf
Application Form Link: **https://payments.billdesk.com/bdcollect/bd/nittkolkata/10074**

➢ **Course Fee Details:**

Category of FDP	Category - A	Category - B	Category - C
Fees per participant per week	Rs. 1500/-	Rs. 1000/-	Rs. 500/-

➢ 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.