PROGRAMME CALENDAR | 25 26

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 2025-26.

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

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

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***

Programme Calendar 2025-26

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

Sl. No.	Prog. Code	Programme Title	Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date		Week	Target Participant / Group	Programme Outcomes
							From	To			
1	CU01A	Seismic retrofitting for sustainable and resilience structures.	1500	In-house	ICT	Mithu Dey	As per demand		1	Faculty and staff members from civil and allied discipline	After attending the program, participants are expected to be able to • Identify the different vibration control system • Demonstarte the application and principle of vibration control system • Differentiate the active , semi active and passive control system • Develop the numerical model for for the passive control system. • Use the software for analysisng the stcrutures with vibration control system.
2	CU02C	Bio-Medical Instrumentation	500	In-house	Contact	Subrata Chattopadhyay	As per demand		1	Faculty and staff 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

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3	CU03C	Process Control Using PLC DCS & SCADA	500	In-House	Contact	Subrata Chattopadhyay	As per demand		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 • 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
4	PS01C	Institutional Management and Administrative Procedures	1000	In-House	Contact	Arpan Kumar Mondal and Sukanta Kumar Naskar	As per demand	-	2	Faculty and staff members from all discipline	After completion the programme, the 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 • Identify the administrative procedures to manage department / institute • Apply the procedures
5	PS02A	Advanced Pedagogy	3000	In-House	Contact	Arpan Kumar Mondal and Sukanta Kumar Naskar	As per demand	-	2	Faculty and staff 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	MGT06C	Disaster Risk Management	500	Kolkata	Hybrid	Anil Kumar and Kunwar R Singh	08/09/2025	12/09/2025	1	Faculty, Staff, Disaster Managment Professionals, Research Scholar	• Understanding Disaster Risk – Explore the types, causes, and impacts of natural and human-induced disasters. • Risk Assessment & Vulnerability Analysis – Develop skills to assess disaster risks and identify vulnerable communities and infrastructure. • Disaster Preparedness & Response – Enhance knowledge of early warning systems, emergency planning, and crisis management strategies. • Mitigation & Resilience Building – Learn strategies for reducing disaster risks and strengthening community and infrastructure resilience. • Disaster Recovery & Rehabilitation – Understand post-disaster recovery planning, rehabilitation, and long-term resilience-building approaches. • Governance & Policy Frameworks – Examine national and international disaster risk reduction (DRR) policies, legal frameworks, and institutional mechanisms. • Technology & Innovation in Disaster Management – Explore the role of GIS, remote sensing, AI, and other technologies in disaster risk reduction.

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7	CU103B	Data Analytics with PYTHON	1000	Kolkata	ICT	Kinsuk Giri and Chandan Chakrabarty	08/09/2025	12/09/2025	1	Faculty, Staff and research scholar from relevant disciplines	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.
8	CU104B	CAD/CAM	1000	Kolkata	Contact	Nirmal Kumar Mandal	08/09/2025	12/09/2025	1	Faculty, Staff and research scholar from Mechanical, Production, Industrial and relevant disciplines	After attending the programme the participants will be able to • Define automation. • Classify automation. • Operate automated system.
9	CU105C	Design Using CAD Tools	500	Kolkata	Hybrid	Niladri Pratap Maity	08/09/2025	12/09/2025	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 • Identify and comprehend influence of semiconductor industry on the design and development of IC tools • Acquaint with different design methodologies • Apply the concept of circuit analysis using CAD tools • Modeling the advanced MOS devices using Silvaco ATLAS and ATHENE • Concept of BIPOLE and MINIMOS tools • Analyze the different circuit analysis using SPICE.

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10	CU106A	Engineering Thermodynamics	1500	Kolkata	Hybrid	Rayapati Subbarao	08/09/2025	12/09/2025	1	Faculty, Staff and research scholar from relevant disciplines	At the end of the programme, the participants will be to: • paraphrase the basics of thermodynamics. • apply laws of thermodynamics in various problems. • appreciate more about entropy and the processes of perfect gases. • identify and analyze thermodynamic air cycles. • familiarize the basics of fuels and combustion.
11	CU107B	Object Oriented Programming in C++	1000	Kolkata	Contact	Rajeev Chatterjee	08/09/2025	12/09/2025	1	Faculty of CSE, IT Computer Application, Electronics, discipline	After completion of this program, the participants will be able to: • Create an Object-Oriented Model of software, • Write a Program in C++ to solve a computational problem • Compile, debug and execute a program in C++ • Apply objects, classes, inheritance, polymorphism etc. to implement object-oriented programming.
12	CU108C	Bio-Medical Instrumentation	500	BBSR	Contact	Subrata Chattopadhyay	08/09/2025	12/09/2025	1	Faculty, Staff and research scholar from relevant 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

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13	CU109C	Drinking Water Pollution and Public Health	500	Kolkata	ICT	Sailendra Nath Mandal	08/09/2025	12/09/2025	1	Faculty, Staff and research scholar from relevant disciplines	After attending the programme the participants will be able to acquire – • knowledge of different drinking water 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
14	CU110B	Control System Analysis and Design Using MATLAB	1000	Kolkata	Hybrid	Soumitra Kumar Mandal	08/09/2025	12/09/2025	1	Faculty and Lab Technician of Electrical Engineering and Allied discipline	After attending the programme, the participants will be able to • write code in MATLAB • implement MATLAB Applications in Control System • design and analysis of control system
15	PS38B	Implementing Holistic and Multidisciplinary Education in HEIs	1000	Kolkata	ICT	Urmila Kar	08/09/2025	12/09/2025	1	Faculty members and Technicians from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion of the programme, the participants will be able to • Identify the need for and components of Holistic and Multidisciplinary education • Explain the principles of Holistic and • Multidisciplinary education. • Identify the challenges in implementing Holistic and Multidisciplinary education in HEIs • Explore the strategies in implementing Holistic and Multidisciplinary education in HEIs.

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16	CU111C	Environment Risk Resilience	500	Kolkata	ICT	Kunwar R Singh and Anil Kumar	08/09/2025	12/09/2025	1	Faculty, Staff and research scholar from all disciplines	After completion of the programme, the participants will be able to • Understand Environmental Risks and Resilience Concepts • Analyze Risk Assessment Frameworks • Evaluate Risk Reduction and Resilience Strategies
17	CU114A	MATLAB & LABVIEW Applications in Engineering	3000	Kolkata	Hybrid	Sagarika Pal	15-09-2025	26-09-2025	2	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After attending the programme the participant will be able to 1 Use MATLAB commands, SIMULINK, Control system tool Box 2 Develop GUI files for interaction with MATLAB Toolbox 3 Explain features of LABVIEW 4 Create VI files 5 Apply VI files in various fields 6 Apply Data Acquisition System in LABVIEW Develop LABVIEW programming in various real time applications
18	PS39C	Effective Training	500	Kolkata	ICT	Sukanta Kumar Naskar	15/09/2025	19/09/2025	1	Faculty, Staff and research scholar from relevant disciplines	After attending the training programme participants will be able to: • Identify steps in conducting training • Design training programme • Identify methodogology of training programme • Assess training programme
19	PS40C	Student Mentorship	500	BBSR	Contact	Habiba Hussain	15/09/2025	19/09/2025	1	Faculty and staff members from all discipline	Upon successful completion of the programme, participants will be able to • Identify the essential functions as a mentor • Categorise the styles in mentoring students • Provide feedback to encourage a growth mindset • Decide strategies for study skills • Guide students in learning engagement

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20	CU112C	Fundamentals of Machine Learning and Deep Learning	500	Kolkata	ICT	Indrajit Saha	15/09/2025	19/09/2025	1	Faculty, Staff and research scholar from all disciplines	After attending the program, the participants will be able to • describe the fundamentals of Machine Learning (ML) and Deep Learning (DL) • apply ML for clustering, classification and regression • explain ML and DL in classroom
21	CU140C	Cyber Security	500	Kolkata	Contact	Rajeev Chatterjee	15/09/2025	19/09/2025	1	Faculty of CSE, IT Computer Application, Electronics, discipline	After completion of this program, the participants will be able to: • Explain the concept of Network and Internetwork security • Illustrate Principles of Security • Describe ISO27001: 2013 • Demonstrate Network infrastructure elements • Explain Infrastructure level security • Enlighten Application-level security • Demonstrate best practices in the cyber world.
22	CU122B	DC/DC Power Conversion and its Applications	1000	Kolkata	Hybrid	Papia Ray	15/09/2025	19/09/2025	1	Faculty/ Staff/ Research Scholars from all discipline	After completion of the program, the participants will be able to • describe the basic operation of power converters, dc/dc converters, type of converters and its efficient utilization. • apply control algorithm in dc/dc converters • Explain real time applications
23	CU127C	Modeling and Optimization Techniques	500	Kolkata	Hybrid	K Venkata Rao	15-09-2025	19-09-2025	1	Faculty, Staff Members, Research scolars from any discipline	After completion of the program, the participants will be able to • Understand different modeling and optimization techniques • Apply suitable modeling and optimization techniques • Solve engineering problems using optimization techniques

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24	CU131C	Data Analytics with Python	500	Kolkata	Hybrid	Jagadeesh M S	15-09-2025	19-09-2025	1	Faculty, Staff Members, Research scolars from any discipline	After completion of the program, the participants will be able to • Understand the Fundamentals of Data Analytics • Perform Data Cleaning and Preprocessing • Visualize Data Effectively • Work with Real-World Data Sets • Handle Time Series Data and Forecasting • Enhance Career Opportunities in Data Science and Analytics
25	MGT02B	Digital Human Resource Management	1000	Kolkata	ICT	Deepak Mehra	15-09-2025	19-09-2025	1	Faculty Members, Research Scholars, Students of Technical and Management Institutions of all disciplines	After completion of the programme, the participants will be able to • **explain** the role of digital technologies in enhancing human resource processes • **apply** digital HR tools to real-world case studies, demonstrating their ability to automate • **analyse** and **compare** the effectiveness of various digital HR platforms • **critically assess** the impact of digital transformation on HR functions
26	CU115C	Application of AutoCAD in Engineering & basic sciences	500	Kolkata	Hybrid	Mithu Dey	22/09/2025	26/09/2025	1	Faculty, Staff and research scholar from relevant disciplines	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
27	CU141C	Data Structures and Algorithms with Python	500	Kolkata	Hybrid	MS Jagadeesh	06-10-2025	10-10-2025	1	Faculty, Staff Members, Research scolars from any discipline	After completion of the program, the participants will be able to 1.Understand basic data structures and algorithms using Python. 2.Apply suitable data structures to solve given problems. 3. Write efficient Python programs using different algorithms. 4. Analyze the performance of algorithms in terms of time and space. 5. Develop problem-solving and logical thinking skills.

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28	CU211B	**Electrical Machine and Drives Control**	2000	Kolkata	ICT	Papia Ray	**06/10/2025**	**17/10/2025**	**2**	Faculty & Staff members of Electrical, Electronics and Mechanical Engineering discipline from degree and diploma colleges, Industry person, scientist, Research Scholars	After attending the program, the participants will be able to • Explain the basic principles of Electrical machines, types of machines and their needs • Incorporate control schemes in electrical drives • Implement Electrical Machines and Drives in real time applications
29	PS70C	Essentials of Outcome based Education	500	Kolkata	ICT	Habiba Hussain	06/10/2025	10/10/2025	1	Faculty members from all discipline	After completion of the program, the participants will be able to • Identify the essential features of OBE • Explain the principles of OBE • Formulate outcomes at different levels • Plan instruction for implementing OBE
30	CU79C	Human Factors and Ergonomics in Smart Factories	500	Kolkata	ICT	Deepak Mehra	06/10/2025	10/10/2025	1	Faculty Members, Research Scholars, Students of Technical and Management Institutions of all disciplines	After completion of the programme, the participants will be able to • Recall key ergonomic principles and smart factory technologies, such as automation and AI. • Explain the importance of human factors in improving safety and performance in smart factory environments. • Apply ergonomic principles to optimise workstation design and human-machine interactions. • Analyse potential ergonomic risks and propose practical solutions for smart factory workers. • Evaluate the effectiveness of ergonomic solutions in enhancing worker comfort, efficiency, and safety.

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31	PS46C	Induction Training Phase-I	1000	Kolkata	ICT	Sukanta Kumar Naskar & Sagarika Pal	06-10-2025	17-10-2025	2	Faculty, Staff from all disciplines	• 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 quality parameters of Technical Education • Identify managerial roles of a teacher Develop curriculum
32	PS50A	Advanced Pedagogy	3000	Kolkata	ICT	Arpan Kumar Mondal and Sukanta Kumar Naskar	06-10-2025	17-10-2025	2	Faculty and staff 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
33	CU142B	Cloud and High-Performance Computing	1000	Kolkata	Contact	Kinsuk Giri & Rajeev Chatterjee	13-10-2025	17-10-2025	1	Any Science and Engineering Stream	• After completion of this program, the participants will be able to: • Explain the concept of various cloud models and cloud infrastructure • Exhibit the limitation of modern computers in context of HPC Demonstrate performance in HPC and Cloud Computing
34	CU227C	Advance Wastewater Treatment and Water Reuse	1000	Kolkata	Hybrid	Kunwar R Singh	13/10/2025	17/10/2025	1	Faculty, Staff and research scholar from all disciplines	After completion of the programme, the participants will be able to • Understand Principles of Advanced Wastewater Treatment • Analyze Advanced Treatment Technologies • Assess Wastewater Quality for Reuse • Implement Water Reuse Strategies

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35	CU206C	Overview of Green Manufacturing	500	Kolkata	ICT	Nirmal Kumar Mandal	13-10-2025	17-10-2025	1	Faculty and Staff members from Mechanical, Production, Industrial and allied discipline	After attending the programme the participants will be able to •Understand the smart materials •Analyse the functions of smart materials •Model a smart material • Explain Multifunctional Materials
36	PS47C	Research Methodology and Academic Writing	500	Guw	Contact	K Venkata Rao	13-10-2025	17-10-2025	1	Faculty and Research scholars from any discipline	• 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
37	CU143C	Application of MATLAB for Mechanical Engineering	500	Kolkata	Hybrid	Saurabh Kumar Yadav	13-10-2025	17-10-2025	1	Faculty, Technical Staff, PG Students, Research Scholar	Utilize MATLAB to simulate dynamic systems and perform finite element analyses; Develop and analyse control system models and create insightful visualizations; Solve practical engineering and machine design problems using MATLAB toolboxes
38	CU144C	Fundamentals of Soft Computing	500	Kolkata	ICT	Indrajit Saha	13-10-2025	17-10-2025	1	Faculty and Staff members from all discipline	• Describe the fundamentals of Soft Computing; Explain the fundamentals of Fuzzy Logic (FL), Evolutionally Computing (EC) and Artificial Neural Network (ANN); Explain FL, EC and ANN in classroom
39	PS48C	Scientific Research Methodology and Publication Ethics	500	BBSR	Contact	Niladri Pratap Maity	13-10-2025	17-10-2025	1	Faculty and Staff members from all discipline	• Understand scientific research; Follow step by step scientific research methodologies; Define ethics and research integrity; Understand different ethical issues; How to write research papers?; Scientific Conduct; Plagiarism
40	PS49C	Development of Life Skill	500	Kolkata	ICT	Sukanta Kumar Naskar	20/10/2025	24/10/2025	1	Faculty and Staff members from all discipline	After attendig the programme the participants will be able to: • Identify essentials life skills Know how to apply some of them

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41	CU145B	PLC and LABVIEW Application in Engineering	1000	Kolkata	Hybrid	Soumitra Kumar Mandal	20/10/2025	24/10/2025	1	Faculty and Lab Technician of Electrical Engineering and Allied discipline	After attending the programme, the participants will be able to • describe the architecture of PLC • develop PLC Programs • apply PLC in Industrial Automation • understand fundamentals of LABVIEW implement LABVIEW Applications in Control Engineering
42	MGT08C	Mangement Practice for Safety Engineering	500	Kolkata	Contact	Saurabh Kumar Yadav	27-10-2025	31-10-2025	1	Faculty (Mech, Elec, Mechatronics, Civil), Technicians, Project Mentors	• 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
43	CU219C	Industrial visit to Drinking and Wastewater Treatment Plant	500	BBSR	Contact	Sailendra Nath Mandal	27/10/25	31/10/2025	1	Faculty and Staff of any discipline	After attending the programme the participants will be able to gain and develop– • knowledge of different unit operation of 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)
44	CU220C	Engineering Mechanics with MATLAB	500	Kolkata	ICT	Nirmal Kumar Mandal	27/10/25	31/10/2025	1	Faculty of All disciplines, Research Scholars	After attending the programme, the participants will be able to • Understand fundamental principles of engineering mechanics • Analyze the force system using MATLAB • Analyse the physical model with MATLAB • Study the equilibrium conditions with MATLAB

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45	CU147C	Fundamentals of Image Processing	500	Kolkata	ICT	Indrajit Saha	27-10-2025	31-10-2025	1	Faculty and staff from all disciplines	• Describe the fundamentals of image processing (IP) in MATLAB; Apply MATLAB commands to do IP; Explain image processing in classroom
46	CU148C	Utilisation of Instructional Media and Courseware in Effective Teaching Learning Process	500	Guw	Contact	Subrata Chattopadhyay	27/10/2025	31/10/2025	1	Faculty and staff from all disciplines	After attending the course the participants will be able to • Understand the utility of instructional media in effective teaching • Familiar with the computer to be used as instructional media and its advantages and limitations • Understand the courseware and its implementation through Computer assisted instruction • A model class with CAI • Design and Developmeent of courseware
47	CU149C	Sustainable Energy and Environment in Manufacturing	500	Kolkata	ICT	Deepak Mehra	27/10/25	31/10/2025	1	Faculty, staff, Research Scholars, Students of Technical and Management Institutions of all disciplines	After completion of the programme, the participants will be able to • **Explain and apply** principles of sustainable energy and environmental management in manufacturing processes. • **Analyze and improve** energy efficiency and resource utilization in industrial operations. • **Evaluate the Environmental Impacts** of manufacturing activities and suggest mitigation strategies. • **Integrate Green Practices** such as renewable energy, waste minimization, and eco-friendly technologies in manufacturing. • **Demonstrate Responsibility** towards sustainable development goals and ethical environmental practices in industry.

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48	CU151A	Introduction to NLP and its Applications	1500	Kolkata	Contact	Jagadeesh M S	03-11-2025	07-11-2025	1	Faculty and Staff members from CSE and its allied disciplines	• Understand Basic Concepts of NLP; • Handle Text Data for NLP Applications; • Apply Basic NLP Tools and Libraries; • Introduction to Sentiment Analysis; • Introduction to Machine Learning for NLP; • Understand the Future of NLP and AI
49	PS71B	Experential Learning For Improving Teaching-Learning	1000	Kolkata	ICT	Habiba Hussain	03/11/2025	07/11/2025	1	Faculty members from all discipline	After completion of the programme, the participants will be able to • explain experiential learning • Identify the components of experiential learning • Categorise different stages in experiential learning cycle • Identify activities for the stages of the learning cycle • Plan a topic with experiential learning
50	PS76C	NBA and NAAC Accreditation	500	BBSR	Contact	Rayapati Subbarao	03/11/2025	07/11/2025	1	Faculty of all disciplines	After attending the programme, the participants will be able to • Identify the impact of accreditation. • Prepare Vision, Missiona and COs. • Identify the criteria for NBA and NAAC. • Categorize different key crietiera and indicators. Learn how to prepare SAR and SSR.

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51	PS68A	Advanced Pedagogy	3000	KOLKATA	ICT	Urmila Kar	10/11/2025	21/11/2025	2	Faculty members and Technicians from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After attending the programme, the participants will be able to • Explore innovative approaches in curriculum design and development for higher education • Evaluate contemporary pedagogical practices in Higher Education • Promote Outcome Based Education • Incorporate technology in teaching to enhance the teaching learning process • Identify innovative pedagogical practices in higher education • Engage students in complex problem solving and critical thinking • Develop teaching style to match learning styles of students • Design tools for assessing learning • Plan teaching for Education 4.0
52	CU152C	Smart Robotics: Arduino & IoT for Mechanical Innovators	500	Kolkata	Hybrid	Saurabh Kumar Yadav	10-11-2025	14-11-2025	1	Faculty, Lab Technicians, Product Developers, Project Mentors	• Assemble, program, and test Arduino-based robotic platforms with sensors and actuators; Integrate IoT modules for real-time monitoring and remote control of mechanical parameters; Deploy robotic prototypes (e.g., arms, self-balancing bots) with feedback control in practical settings

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53	CU146C	Technology Enabled Learning – Concepts and Practices	500	Guw	Contact	Rajeev Chatterjee	10-11-2025	14-11-2025	1	Faculty and staff of all disciplines	• 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 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; Design content for virtual labs
54	CU153C	Sensors and IoT Applications	500	Kolkata	Hybrid	Sagarika Pal	10-11-2025	14-11-2025	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	• Differentiate sensors, transducers and actuators; Explain principle of operation of different sensors; Explain the principle of actuators; Explain need of IoT for sensor data communication; Apply IoT sensors in various automation fields
55	CU154C	Sustainable Energy Engineering	500	Kolkata	ICT	Kunwar R Singh, Anil Kumar and Gayadhar Panda	10/11/2025	14/11/2025	1	Faculty, Staff and research scholar from all disciplines	After completion of the programme, the participants will be able to • Understand the Fundamentals of Sustainable Energy • Evaluate Renewable Energy Technologies • Analyze Energy Efficiency and Conservation Strategies • Assess Environmental and Socio-economic Impacts

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56	CU212B	Assessment of wide area measurement systems by computational intelligence techniques	1000	Kolkata	ICT	Papia Ray	**10/11/2025**	**14/11/2025**	**1**	Faculty & staff members of Electrical & Electronics Engg 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 • 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
57	CU221C	Artificial Neural Network and It's Applications	500	Kolkata	ICT	Nirmal Kumar Mandal	10/11/2025	14/11/2025	1	Faculty of All disciplines, Research Scholars	After attending the programme, the participants will be able to •State the necessity of Neuro computing •Model different types of Artificial Neural Networks (ANN) •Use MATLAB for Modelling the ANN •Apply ANN in various physical models.
58	SPL-MGT07C	Institutional Management and Administrative Procedure	1000	Kolkata	ICT	Arpan Kumar Mondal and Sukanta Kumar Naskar	10/11/2025	21/11/2025	2	Faculty and Staff members from all discipline	After completion the programme, the 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 • Identify the administrative procedures to manage department / institute Apply the procedures

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59	PS51C	Research Methodology, Ethics and Research Funding Opportunities	1000	Kolkata	Hybrid	Niladri Pratap Maity	10/11/2025	21/11/2025	2	Faculty and Staff members 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
60	CU155C	Drinking Water Quality Parameters & Public Health	1000	Kolkata	ICT	Sailendra Nath Mandal	10/11/2025	21/11/2025	2	Faculty and Staff of any discipline	After attending the programme the participants will be able to acquire – • knowledge of different drinking water testing parameters, equipment, methods of testing , different standards and impact on human health, • skill of online live demonstration of 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, related to engineering chemistry, • attitude of live online lecture and demonstration in the laboratory/field
61	CU156C	Curriculum Design for Industry 4.0	500	Kolkata	Hybrid	K Venkata Rao	17-11-2025	21-11-2025	1	Faculty and Research scholars from Mechanical/Production Engineering	• Foster knowledge on Industry 4.0 technologies; Design curricula to meet skills required by modern industries; Improve industry-academia collaboration

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62	MGT12C	Solid Waste Management	500	BBSR	Contact	Anil Kumar	17-11-2025	21-11-2025	1	Faculty and Staff of any discipline	After attending the programme the participants will be able to acquire – • Understanding Solid Waste – Explore the types, sources, and environmental impact of solid waste. • Waste Reduction & Prevention – Promote sustainable consumption and waste minimization strategies. • Waste Collection & Segregation – Learn best practices for efficient waste collection, sorting, and recycling. • Recycling & Circular Economy – Understand waste-to-resource strategies, including composting, upcycling, and sustainable material use. • Waste Treatment & Disposal Technologies – Explore innovative waste processing techniques, such as incineration, biogas generation, and landfill management.
63	CU157C	PLC Programming and its Applications	500	Kolkata	Hybrid	Sagarika Pal	17-11-2025	21-11-2025	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	• Describe the architecture of PLC; Develop PLC Programs; • Apply PLC in developing PID Controller; • Apply PLC for various automation systems
64	CU159B	Exposure on MATLAB and Various Applications	1000	Kolkata	Hybrid	Soumitra Kumar Mandal	17/11/2025	21/11/2025	1	Faculty and Lab Technician of Electrical Engineering and Allied discipline	After attending the programme, the participants will be able to • understand fundamentals of MATLAB • implement MATLAB Applications in Electrical Circuit, Control and Power System • explain the different aspect of MATLAB & Simulink • use MATLAB in analysis, design and simulation of Power Electronics

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65	PS52B	Outcome-Based Education (OBE) and Accreditation	1000	Kolkata	ICT	Deepak Mehra and Arpan Kumar Mandal	17/11/2025	21/11/2025	1	Faculty Members, staff and Research Scholars,	After completion of the programme, the participants will be able to • Recall key concepts of Outcome-Based Education (OBE), including its principles, frameworks, and the process of accreditation. • Explain the importance of aligning educational outcomes with industry standards and accreditation requirements in higher education institutions. • Apply OBE principles to design and assess curriculum, ensuring alignment with program outcomes and learning objectives. • Analyze assessment data and academic performance to evaluate the effectiveness of OBE implementation and identify areas for improvement. • Evaluate the accreditation process and its impact on educational quality, providing recommendations to enhance institutional practices for achieving accreditation
66	PS53C	ICT, AI Tools and Digital Pedagogy for Teaching Learning	1000	Kolkata	ICT	Arpan Kumar Mondal	17/11/2025	28/11/2025	2	Faculty members from all discipline	After going through this program the participants will be able to: • Explain the need for online pedagogy • Plan online instruction • Explain the concept of online Mode of teaching-learning, • Understand the use of various ICT tools, • Apply different online tools for ICT-based teaching and learning • Apply different online tools for online assessment • Incorporate different principles for effective online delivery

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67	CU158C	PYTHON Programming	500	BBSR	Contact	Kinsuk Giri	24/11/2025	28/11/2025	1	Faculty and staff of all disciplines	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
68	CU222C	Sustainable Digital Supply Chain Management	500	Kolkata	ICT	Deepak Mehra	24/11/2025	28/11/2025	1	Faculty Members, Research Scholars, Students of Technical and Management Institutions of all disciplines	After completion of the programme, the participants will be able to ❖ Explain the significance of sustainability within supply chain management ❖ Describe the relationship between digital supply chain strategies and sustainability ❖ Apply digital supply chain tools ❖ Analyze the impact of digital technologies on the sustainability of supply chains ❖ Evaluate the effectiveness of sustainable practices in digital supply chains using sustainability performance metrics

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69	CU232C	Soil Exploration-Latest Trends & Techniques	500	Kolkata	Hybrid	Naveen B P	24/11/2025	28/11/2025	1	Faculty, staff members, Research Scholar from civil and allied discipline	After completion of the programme, the participants will be able to • Enhanced understanding of practical soil investigation procedures. • Appreciation of soil properties in foundation design and geotechnical analysis. • Ability to apply soil behavior knowledge to real-world engineering problems. • Encouragement to integrate laboratory experiments into undergraduate and postgraduate teaching.
70	CU203C	Application of finite element method in engineering using advanced software	500	Kolkata	Contact	Mithu Dey	24-11-2025	28-11-2025	1	Faculty members from civil and allied 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
71	CU160C	Finite element Based Solution by using MATLAB	500	Kolkata	Hybrid	Saurabh Kumar Yadav	24-11-2025	28-11-2025	1	Faculty, Researchers (Mech, Civil, Aero), PG Students	• Demonstrate a solid understanding of FEM fundamentals and formulations for structural and thermal analyses; Implement and run MATLAB-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
72	CU161C	Introduction to Machine Learning and Deep Learning	500	Kolkata	ICT	Indrajit Saha	24-11-2025	28-11-2025	1	Faculty and staff of all disciplines	• 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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73	CU162C	Semiconductor: Devices, Applications and Prospects	500	Kolkata	Hybrid	Niladri Pratap Maity	24-11-2025	28.11-2025	1	Faculty members/Scientists/ Staffs of ECE/EE/CSE/IT/EE E/E&TC/EIE/Physic s/Electronics and related subject	• Identify and comprehend influence of semiconductor industry on the design and development of IC tools; Acquaint with different design methodologies; Apply the concept of circuit analysis using CAD tools; Modeling the advanced MOS devices using Silvaco ATLAS and ATHENE; Concept of BIPOLE and MINIMOS tools; Analyze the different circuit analysis using SPICE
74	CU163C	Geotechnical Investigation Field and Laboratory Testing	500	BBSR	Contact	Naveen BP	24/11/2025	28/11/2025	1	Faculty and laboratory technicians	Participants will be trained in the standard procedures, technical importance.
75	PS41C	Waste Water Treatment: Pollution Control and Reuse	500	Guw	Contact	Subrata Mondal	24/11/2025	28/11/2025	1	Faculty, Staff and research scholar from all disciplines	After attending this program, participants would be able to: • explain the characterizations of wastewater; • explore the characteristics of various industrials wastewater; • describe the wastewater treatment using low cost adsorbents and nano sized adsorbents; • describe the wastewater treatment using membrane technology etc.
76	PS54B	Research Metholodlogy	1000	Kolkata	Contact	Rayapati Subbarao	24/11/2025	28/11/2025	1	Faculty of all disciplines and Research scholars	After attending the programme, the participants will be able to • Identify different aspscets of research. • Construe the results in a better way. • Derive conclusions from the plots and contours made. • Discover the ways of writing a research paper. • Communicate a paper in their area of research.

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77	CU213A	Design of Power plants and Digital Protection of Power Systems	3000	Kolkata	Hybrid	Papia Ray	**24/11/2025**	**05/12/2025**	**2**	Faculty & staff members of Electrical & Electronics Engg & related disciplines from Degree & Diploma colleges, Industry person, Scientist, Research Scholars	After attending the program, the participants will be able to • discuss the basic design of power plants, and substations. • practice the basic principles and concepts of power system protection • Incorporate the advanced techniques for digital protection of power systems • Design the power plants.
78	CU164B	Introduction to Applied IP Networking	1000	Kolkata	Contact	Rajeev Chatterjee	01-12-2025	05-12-2025	1	Faculty of CSE, IT Computer Application, Electronics, discipline	Explain the concept of Computer Network and Internetwork; Identify the various components of Network and Internetwork; Explain various network topologies, media, protocols, and devices used in networks; Analyze the various protocols in TCP/IP Suite; Explain LAN and VLAN; Apply the concept of switching and routing; Demonstrate configuration of the devices such as routers, switches, etc.; Demonstrate the concepts related to Network Security
79	PS56C	Implementation of NEP2020	500	BBSR	Contact	Saurabh Kumar Yadav	01-12-2025	05-12-2025	1	Faculty, Ph.D. Scholars (Mech, Applied Math)	• Align curriculum and assessment frameworks with NEP2020's interdisciplinary, experiential, and competency-based learning principles; Integrate technology-enabled pedagogy, inclusive practices, and continuous feedback mechanisms into course and program design; Develop institutional roadmaps, governance structures, and stakeholder engagement plans to operationalize NEP2020 at departmental and university levels

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80	PS68C	Induction Training	1000	Kolkata	ICT	Subrata Mondal	01/12/2025	12/12/2025	2	Faculty and staff of 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 the importance of quality in education; • explore aims of laboratory in technical education; • explore question banking and assessment methods; • explore e-learning in teaching etc.
81	PS75C	Accreditation by NAAC	1000	Kolkata	ICT	Urmila Kar	08/12/2025	12/12/2025	1	Faculty members and Technicians from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion of the programme, the participants will be able to • Identify need for and objectives of accreditation by NAAC • Illustrate the criteria for accreditation by NAAC Demonstrate preparation of SSR of NAAC
82	PS78C	How to Write Thesis and Research paper	1000	Kolkata	Contact	Rayapati Subbarao	08/12/2025	19/12/2025	2	Faculty of all and Research scholars	After attending the programme, the participants will be able to: • Paraphrase the basics of thermodynamics. • Apply laws of thermodynamics in various problems. • Gain more knowledge about entropy and the processes of perfect gases. • Identify and analyze thermodynamic air cycles. Familiarize the basics of fuels and combustion.
83	CU165B	Robotics Operating Systems	1000	Kolkata	Hybrid	K Venkata Rao	08-12-2025	12-12-2025	1	Faculty, Staff Members, Research scholars from any discipline	• Explain kinematics of industrial robots; Describe sensors and AI used in robots; Explain trajectory planning in different applications

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84	CU207C	Applied Optimization	500	BBSR	Contact	Nirmal Kumar Mandal	08/12/2025	12/12/2025	1	Faculty, Staff Members, Research scholars from any discipline	After attending the programme the participants will be able to • Introduce optimisation • Optimise a function using GA, PSO • Apply various optimisation techniques in real world problems
85	CU224C	Overview of Method Time Measurement and Works Study in modern manufacturing	500	Kolkata	ICT	Deepak Mehra	08/12/2025	12/12/2025	1	Faculty Members, Research Scholars, Students of Technical and Management Institutions of all disciplines	After completion of the programme, the participants will be able to ❖ **Recall** key concepts of Method Time Measurement (MTM) and work study techniques used in modern manufacturing systems. ❖ **Explain** the principles and benefits of applying MTM and work study for optimizing productivity, reducing waste, and improving operational efficiency. ❖ **Apply** MTM and work study methods to evaluate and enhance workflows, time management, and task optimization in manufacturing environments. ❖ **Analyze** existing manufacturing processes to identify inefficiencies and areas for improvement using MTM and work study tools. ❖ **Evaluate** the effectiveness of work study and MTM applications in achieving performance goals, cost reduction, and improved resource utilization in manufacturing operations.

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86	CU166C	Refresher Course on Power Electronics and Electric Vehicles	1000	Kolkata	Hybrid	Soumitra Kumar Mandal	08/12/2025	19/12/2025	2	Faculty and Lab Technician of Electrical Engineering and Allied discipline	After attending the programme, the participants will be able to • explain structure and operating principle and characteristics of Power Electronics Devices • describe operation and control of converters • discuss applications of converters in Electric Drives • explain Operating principle of Electric vechiles • discuss applications of converters in Electric vehicles
87	PS81C	Induction Training Phase-II	1000	Kolkata	Hybrid	Sukanta Kumar Naskar & Sagarika Pal	10/11/2025	21/11/2025	2	Faculty, Staff from all disciplines	• • 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 quality parameters of Technical Education • Identify managerial roles of a teacher Develop curriculum
88	CU167C	IP Networking	1000	Kolkata	Contact	Rajeev Chatterjee	15-12-2025	26-12-2025	2	Faculty of CSE, IT Computer Application, Electronics, discipline	• 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
89	CU204C	Advanced Taeching For Modern Teachers	1000	Kolkata	ICT	Mithu Dey	15-12-2025	26-12-2025	2	Faculty members from civil and allied discipline	After attending the program, participants are expected to be able to • Demonstarte the advanced E tool for teaching • Use the Etool in teaching • Select the suitable advanced teaching method • Prepare E Content for student

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90	CU168C	Application of Python in Mechanical Engineering	500	Kolkata	Hybrid	Saurabh Kumar Yadav	15-12-2025	19-12-2025	1	Faculty (Mech, Prod, Design), Tech Staff, MTech/Ph.D. Scholars, students	• 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
91	PS72A	Assessment strategy for Outcome based education	1500	Kolkata	ICT	Habiba Hussain	15/12/2025	19/12/2025	1	Faculty members from all discipline	After attending the program, participants are expected to be able to • identify the principles of assessment • Distinguish the different types of assessment • Analyse the tools being employed for assessment • Decide strategies for assessment of outcomes attained
92	CU169B	Machine Learning With Python	1000	Kolkata	Hybrid	Jagadeesh M S	15-12-2025	19-12-2025	1	Faculty, Staff Members, Research scholars from any discipline	• 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
93	PS57C	Effective Teaching and Research	500	Kolkata	ICT	Indrajit Saha	15-12-2025	19-12-2025	1	Faculty and staff of all disciplines	• Conduct classes in active and passive teaching modes; Apply digital tools in classroom teaching; Explain and conduct research for academic development
94	PS58C	Assessment, Evaluation and Development of question bank	500	BBSR	Contact	Sagarika Pal	15-12-2025	19-12-2025	1	Faculty and staff of all disciplines	• Define Measurement, Assessment, Evaluation and Test; Construct the test items; Design the table of Specification; Prepare the question paper; Analyze the question paper; Develop question Bank

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95	MGT09C	Institutional Management	500	Kolkata	ICT	Sukanta Kumar Naskar	15/12/2025	19/12/2025		Faculty and staff of all disciplines	After attending the programme, participants will be able to: • Identify the components of institutional management • Apply the institutional management components effectively • To correlate the institutional management components with institutional objectives
96	MGT10C	Climate Risk Management	500	Kolkata	Hybrid	Anil Kumar and Kunwar R Singh	15/12/2025	19/12/2025	1	Faculty, Energy Policy Managment Professionals, State Government officials from SDMAs, Urban & Housing, Energy department and Environment Forest & Climate Change Department and others	Understanding Climate Risks – Explore the science of climate change, its causes, and its impacts on ecosystems, economies, and societies. Risk Assessment & Vulnerability Analysis – Develop skills to assess climate risks and identify vulnerable sectors, communities, and infrastructure. Climate Change Mitigation Strategies – Learn methods to reduce greenhouse gas emissions, promote renewable energy, and enhance carbon sequestration. Climate Adaptation & Resilience Building – Explore adaptation strategies for agriculture, water resources, infrastructure, and public health. Disaster Preparedness & Risk Reduction – Strengthen early warning systems, emergency response mechanisms, and climate-resilient infrastructure planning.
97	PS59A	Assessment Strategy For Outcome Based Education	1500	Kolkata	ICT	Habiba Hussain	15/12/2025	19/12/2025	1	Faculty members from all discipline	Upon successful completion of the programme, participants will be able to • Identify the principles of assessment • Distinguish the different types of assessment • Analyse the tools being employed for assessment • Decide strategies for assessment of outcomes attained

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98	CU170C	Industrial Control System	500	Guw	Contact	Subrata Chattopadhyay	15/12/2025	19/12/2025	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 • Design the conventional complex control system like ratio, cascade, feed forward, selective, override etc. • Know the fundamental of PLC, DCS and SCADA
99	CU171C	Air and Water Pollution Analysis	500	Kolkata	ICT	Sailendra Nath Mandal	15/12/2025	19/12/2025	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 pollution, Water pollution, Noise pollution, Light pollution and impact on human health, • skill of live online demonstration of 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 live online lecture and demonstration in the laboratory/field.
100	CU172C	Environmental impact assessment of infrastructure projects	500	Kolkata	ICT	Kunwar R Singh	15/12/2025	19/12/2025	1	Faculty, Staff and research scholar from all disciplines	After completion of the programme, the participants will be able to • Understand the Fundamentals of EIA for Infrastructure Projects • Identify Environmental Impacts of Infrastructure Projects • Apply EIA Tools and Techniques • Develop Environmental Management and Mitigation Plans

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101	**CU214C**	**Design, Development and Control of Micro Grids**	500	**Guw**	**Contact**	Papia Ray	**22/12/2025**	**26/12/2025**	**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 • discuss the basic principles of operation of micro grid, need and merits of the adoption of micro-grid systems • Explain different aspects of the deployment of micro-grids such as its architecture, mode of operations, control strategies, monitoring methods, protection schemes and energy management strategies. • Design microgrids in real time applications.
102	**CU210C**	**AI For Everyone**	500	Kolkata	ICT	Nirmal Kumar Mandal	**22/12/2025**	**26/12/2025**	**1**	Faculty of All disciplines, Research Scholars	After attending the programme, the participants will be able to • Understand the basics of artificial intelligence and its subfields. • Explore real-world applications of AI across different industries. • Gain insights into the ethical, social, and economic implications of AI. • Develop an appreciation for the potential of AI to drive innovation and transformation.
103	PS60B	Effective Teaching	1000	Kolkata	ICT	Habiba Hussain	29/12/2025	02/01/2026	1	Faculty members from all discipline	Upon successful completion of the programme, participants will be able to • Characterise effective teaching • Explain innovative teaching methods • Identify the parameters for teaching assessment • Plan a lesson using experiential strategy • Analyse the components for effective delivery

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104	PS55A	Outcome Based curriculum design in line with NEP 2020 for autonomous higher educational institutes(HEIs).	1500	Kolkata	Hybrid	Urmila Kar	29/12/25	02/01/26	1	Faculty members and Technicians from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion the programme, the participants will be able to • Demonstrate curriculum development process • Identify the Features of Outcome Based Education System. • Explain the components and Features of Outcome Based Curriculum. • Identify attributes of Curriculum for HEIs as per NEP2020 and National Credit Framework Develop Content details of Outcome Based Curriculum
105	CU173C	Java Programming	500	BBSR	Contact	Jagadeesh M S	04-01-2026	09-01-2026	1	Faculty, Staff Members, Research scholars from any discipline	1. Apply core Java concepts to solve simple problems. 2. Demonstrate object-oriented programming principles. 3. Develop modular and reusable Java programs. 4. Implement exception handling for robust applications. 5. Work with files, streams, and basic database connectivity. 6. Utilize Java libraries and APIs effectively. 7. Apply problem-solving skills using arrays, strings, and collections.
106	CU208B	Finite Element Analysis with ANSYS	1000	Kolkata	ICT	Nirmal Kumar Mandal	05/01/2026	09/01/2026	1	Faculty and staff members from relevant Disciplines	After attending the programme the participants will be able to • Explain a mechanical system. • Use of software packages to analyse mechanical system.
107	CU228C	Waste to Energy	500	Kolkata	ICT	Kunwar R Singh	05/01/2026	09/01/2026		Faculty, Staff and research scholar from all disciplines	After Completion Of The Programme, The Participants Will Be Able To • Understand The Fundamentals Of Waste To Energy Conversion • Analyze Types And Characteristics Of Waste For Energy Recovery • Evaluate Waste-To-Energy Technologies

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108	PS79C	NBA Accreditation and SAR preparation	500	GUW	Contact	Rayapati Subbarao	05/01/2026	09/01/2026	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 x.
109	CU174C	Network Infrastructure Management	1000	Kolkata	Contact	Rajeev Chatterjee	05-01-2026	16-01-2026	2	Faculty of CSE, IT Computer Application, Electronics, discipline	• • Explain the concept of Computer Network and Internetwork • Identify the various components of Network and Internetwork • Explain the various protocols in TCP/IP Suite • Explain the concept of switching and routing • Explain LAN and VLAN Demonstrate configuration of the devices such as routers, switches, etc. Data Centre Management Explain the concept of network security. Explain the Working Principle of Storage System
110	PS61A	Modern Pedagogical Tools and Techniques for Effective Technical Education	1500	Kolkata	Hybrid	K Venkata Rao	05-01-2026	09-01-2026	1	Faculty and Staff members from all disciplines	• Enhance personalized learning according to individual student needs Improve student engagement through interactive, adaptive learning systems Foster the development of critical thinking and problem-solving skills
111	CU175C	World of Smart Robotics	500	Kolkata	Hybrid	Saurabh Kumar Yadav	05-01-2026	09-01-2026	1	Faculty, Tech Staff, MTech/Ph.D. Scholars, students	• Recent Development of robotics in India, Future prospective of robotics research in India Classify and differentiate between various types of robotic configurations (serial, parallel, mobile, and collaborative robots) Select appropriate actuators, sensors, and controllers for specific robotic applications

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112	PS69C	Development of Laboratory Instruction and Manual	500	Kolkata	e-STTP	Subrata Mondal	05/01/2026	09/01/2026	1	Faculty and staff members from all discipline	After attending this programme, participants will be able to: • explore the role of laboratory in student learning; • explore development of laboratory exercise; • explore writing of laboratory report; • explore standard operating procedure (SoP) in laboratory; • explore safety management in laboratory etc.
113	CU176B	Intorduction to Soft Computing	1000	Kolkata	ICT	Indrajit Saha	05-01-2026	09-01-2026	1	Faculty and staff of all disciplines	• Describe the fundamentals of Soft Computing Explain the fundamentals of Fuzzy Logic (FL), Evolutionally Computing (EC) and Artificial Neural Network (ANN) Explain FL, EC and ANN in classroom
114	MGT11B	Time and Stress Management	1000	Kolkata	ICT	Niladri Pratap Maity	05-01-2026	09.01.2026	1	Faculty and Staff members from all discipline	• Understand the Myths of Time Management Steps of Managing the Time How to organize Time What is Stress Follow up suggestions for reducing the Stress Follow Time and Stress management for Research
115	CU177C	AI-Powered Entrepreneurship & Startup Strategy	500	BBSR	Contact	Saurabh Kumar Yadav	12-01-2026	16-01-2026	1	Faculty, Tech Staff, MTech/Ph.D. Scholars, students	• Identify and validate AI—Use AI tools for market research & business model design Optimize funding pitches with AI-assisted analysis Develop AI-driven go-to-market strategies
116	PS73B	Assessment practices in higher education	1000	Kolkata	ICT	Habiba Hussain	12/01/2026	16/01/2026	1	Faculty members from all discipline	After attending this programme, participants will be able to: • Analyse the shift in assessment practices in higher education • Correlate assessment, feedback and teaching • Explain the levels of assessment in higher education • Design tools for learning assessment

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117	CU225C	Digital Quality Control	500	Kolkata	ICT	Deepak Mehra	12/01/2026	16/01/2026	1	Faculty Members, Research Scholars, Students of Technical and Management Institutions of all disciplines	After completion of the programme, the participants will be able to ❖ **Recall** key concepts and digital tools used in quality control, including statistical process control (SPC), Six Sigma, and automated inspection systems. ❖ **Explain** the role of digital technologies in improving quality control processes, such as real-time data collection, machine learning, and AI-driven analytics. ❖ **Apply** digital quality control methods to monitor and assess manufacturing processes, ensuring product quality and consistency. ❖ **Analyze** data from digital quality control systems to identify trends, defects, and areas for process improvement. ❖ **Evaluate** the effectiveness of digital quality control techniques in reducing defects, improving efficiency, and ensuring product compliance with industry standards.
118	CU178C	Mathematical Foundation of Computer Science	500	Kolkata	Hybrid	Kinsuk Giri	12-01-2026	16-01-2026	1	Any Science and Engineering Stream	• Able to explain mathematical/logical foundation of computations Model computational tasks in terms of mathematical formalism Apply appropriate mathematical tools to solve computational problem

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119	PS72C	Climate Change and Disaster Risk	500	Guw	Contact	Anil Kumar	12-01-2026	16-01-2026	1	Faculty and staff of all disciplines	After completion of the programme, the 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.
120	CU179C	Active learning – An innovative technique for teaching learning system	500	Kolkata	ICT	Sagarika Pal	12-01-2026	16-01-2026	1	Faculty and staff of all disciplines	• Differentiate conventional and active learning system Incorporate strategy in teaching to enhance the learning process Plan teaching for Problem Based / Project Based Learning Engage students in complex problem solving and critical thinking Design tools for assessment of active learning
121	CU180C	Machine Learning with PYTHON	500	Kolkata	Hybrid	Kinsuk Giri & Chandan Chakrabarty	19-01-2026	23-01-2026	1	Faculty and staff of all disciplines	• The notion of Machine Learning and its impact on future employment Overview of PYTHON programming Exposure of supervised and unsupervised ML techniques Hands-on-practice of ML algorithms implementation using PYTHON Explore for problem solving

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							From	To			
122	CU181C	Fundamentals of Image Editing and 2D Animation	500	Kolkata	Contact	Indrajit Saha	19-01-2026	23-01-2026	1	Faculty and staff of all disciplines	• Edit images and create animation Get exposure in various multimedia related software Prepare a computer-based training material
123	CU182C	Advanced Industrial Automation	500	Kolkata	Hybrid	Sagarika Pal	19-01-2026	23-01-2026	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	• 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
124	PS62C	NBA Accreditation and SAR Preparation for Polytechnics and Engineering Colleges	500	BBSR	Contact	Arpan Kumar Mondal	19/01/2026	23/01/2026	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
125	PS63C	Student Mentorship	500	Guw	Contact	Habiba Hussain	19/01/2026	23/01/2026	1	Faculty members from all discipline	Upon successful completion of the programme, participants will be able to • Identify the essential functions as a mentor • Categorise the styles in mentoring students • Provide feedback to encourage a growth mindset • Decide strategies for study skills • Guide students in learning engagement

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							From	To			
126	CU183B	Solar Photovoltic System and Smart Grid	1000	Kolkata	Hybrid	Soumitra Kumar Mandal	19/01/2026	23/01/2026	1	Faculty and Lab Technician of Electrical Engineering and Allied discipline	After attending the programme, the participants will be able to • describe the principles of Solar Cell • identify the various parameters of Solar PV system • develop an in-depth knowledge about Solar PV Module by performing basic experiments • modelling of Solar PV system • operation and Control of Solar PV system • understand fundamentals of Smart grid
127	PS74C	Student Mentorship	500	Guw	Contact	Habiba Hussain	19/01/2026	23/01/2026	1	Faculty members from all discipline	After attending the programme, the participants will be able to • Identify the essential functions as a mentor • Categorise the styles in mentoring students • Provide feedback to encourage a growth mindset • Decide strategies for study skills • Guide students in learning engagement
128	CU215C	Load & Renewable Energy Forecasting and power filters in Power Network	500	**BBSR**	**Contact**	Papia Ray	**19/01/2026**	**23/01/2026**	**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 • discuss the basic principles of load forecasting & Renewable Energy forecasting • Incorporate the advanced optimization techniques for forecasting • Explain the accuracy and efficiency of predicting future electricity demand and renewable energy generation • Plan the Power losses and response analysis

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							From	To			
129	CU113C	Digital Manufacturing Process	500	Guw	Contact	Deepak Mehra	26/01/2026	30/01/2026	1	Faculty Members, Research Scholars, Students of Technical and Management Institutions of all disciplines	After completion of the programme, the participants will be able to • Recall key concepts and technologies used in digital manufacturing • Explain the role of digital technologies in transforming traditional manufacturing processes, focusing on automation, efficiency, and data-driven decision-making. • Apply digital tools and software to simulate, model, and optimize manufacturing processes for improved productivity and quality. • Analyze digital manufacturing data to identify inefficiencies, bottlenecks, and opportunities for process improvements. • Evaluate the impact of digital manufacturing solutions on cost reduction, production speed, and product quality, providing recommendations for implementation.
130	CU184C	Plant Simulation and Control	500	Kolkata	Hybrid	K Venkata Rao	02-02-2026	06-02-2026	1	Faculty, Staff Members, Research scholars from any discipline	Simulate the manufacturing processes in a plant; Optimize the manufacturing time; Prepare routing and estimate production time; Design product/function/combination layout
131	CU209C	Applied Machine Learning	500	Kolkata	ICT	Nirmal Kumar Mandal	02/02/2026	06/02/2026	1	Faculty, Staff Members, Research scholars from any discipline	After attending the programme the participants will be able to • Explain Design of Experiment • Perform statistical modelling of a engineering systems
132	CU185C	AI-Driven Product Lifecycle Management	500	Kolkata	Hybrid	Saurabh Kumar Yadav	02-02-2026	06-02-2026	1	Faculty, Tech Staff, M.Tech/Ph.D. Scholars, students, Entrepreneurs	• Apply AI in ideation, design optimization, predictive maintenance; Integrate AI into product lifecycle stages from concept to disposal

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							From	To			
133	CU231C	Refrigeration and Air Conditioning	500	Kolkata	ICT	Rayapati Subbarao	02/02/2026	06/02/2026	1	Faculty of all Mechanical Engineering and allied disciplines	After attending the programme, the participants will be able to: • Interpret the working principle and features of refrigeration and air conditioning systems. • Recognize different refrigeration cycles and psychrometry processes for air conditioning • Understand the basics of air conditioning and analyze cooling or heating load calculations. • Conduct performance tests on reciprocating air compressors and air blowers. • Know future trends in air conditioning and refrigeration systems.
134	PS64C	Introduction to Problem Based Learning	1000	Kolkata	e-STTP	Kinsuk Giri, Arpan Kumar Mondal, Indrajit Saha, Sagarika Pal	02-02-2026	13-02-2026	2	Faculty members from all discipline	• 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
135	CU186B	Design Using CAD Tools	1000	Kolkata	ICT	Niladri Pratap Maity	02-02-2026	06-02-2026	1	Faculty members/Scientists/ Staffs of ECE/EE/CSE/IT/EE E/E&TC/EIE/Physic s/Electronics and related subject	• Understand Basic of Semiconductor; Semiconductor Device Modelling Method; 2T MOS Modelling; MOSFET Modelling; Semiconductor Materials; Identify Semiconductor Devices; Modern Semiconductor Devices; Follow up High-k Dielectric materials; Follow recent govt. schemes for Semiconductor Mission
136	CU187C	Technical Paper and Thesis Writing by using MS word	500	Kolkata	Hybrid	Saurabh Kumar Yadav	09-02-2026	13-02-2026	1	Faculty, Tech Staff, M.Tech/Ph.D. Scholars, students	• Structure research papers effectively; Use AI tools for literature review & language refinement; Format manuscripts per journal/conference standards

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							From	To			
137	CU229C	Environment Impact and Risk Assessment	500	Kolkata	ICT	Kunwar R Singh	02/02/2026	06/02/2026	1	Faculty members from all discipline	After completion of the programme, the participants will be able to • Understand the Fundamentals of Environmental Impact and Risk Assessment • Identify and Predict Environmental Impacts • Apply Risk Assessment Techniques • Develop Environmental Management and Mitigation Plans
138	MGT13C	Disaster Risk Management	500	Kolkata	Hybrid	Anil Kumar and Kunwar R Singh	02/02/2026	06/02/2026	1	Faculty members from all discipline	After completion of the programme, the 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.

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139	PS82A	Advanced Pedagogy	3000	Kolkata	ICT	Sukanta Kumar Naskar	02/02/2026	13/02/2026	2	Faculty members and Technicians from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After attending the programme, participants will be able to: • Appreciate the taxonomy of T-L • To identify evaluation, assessment and test • Able to evaluate skills • Manage laboratory • Able to use modern tools in T-L Appreciate classroom management methods
140	CU216B	Energy Audit and Management	1000	Kolkata	ICT	Papia Ray	**09/02/2026**	**13/02/2026**	**1**	Faculty & staff members of all disciplines from Degree, Diploma & ITI colleges, Technicians, Industry person, Scientist, Research Scholars	After completion of the program, the participants will be able to • Identify the basic need of energy Audit, types, norms and Policy • Incorporate energy saving approach to industrial, commercial and domestic area. • Explain from economics point of view the energy and its management
141	CU205C	Use of advanced taeching tool in teaching	500	Kolkata	ICT	Mithu Dey	09-02-2026	13-02-2026	1	Faculty members from civil and allied discipline	After attending the program, participants are expected to be able to • Demonstarte the advanced E tool for teaching • Use the Etool in teaching • Select the suitable tool • Use of suitable teaching method for the students

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142	CU226C	Digital Product Design and Development from ideation to implementation	500	Kolkata	ICT	Deepak Mehra	09-02-2026	13-02-2026	1	Faculty Members, Research Scholars, Students of Technical and Management Institutions of all disciplines	After completion of the programme, the participants will be able to ❖ **Recall** fundamental concepts and stages in digital product design and development, including ideation, prototyping, testing, and implementation. ❖ **Explain** the key methodologies and tools used in digital product design, such as design thinking, CAD software, and agile development. ❖ **Apply** digital tools and techniques to create product prototypes, validate designs, and iterate based on user feedback and technical requirements. ❖ **Analyze** market trends, user needs, and technical constraints to make informed design decisions that align with business goals and product specifications. ❖ **Evaluate** the final product design in terms of functionality, feasibility, and user experience, ensuring it meets quality standards and market demands.
143	CU188C	Introduction to LABVIEW Programming and its Applications	500	Kolkata	Hybrid	Sagarika Pal	09-02-2026	13-02-2026	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	• 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

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144	CU234C	AI and ML for Engineering	500	Kolkata	ICT	Nirmal Kumar Mandal	16/02/2026	20/02/2026	1	Faculty , staff and Research scholars from any discipline	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.
145	CU190C	Generative AI for MATLAB programming for mechanical engineers	500	Kolkata	Hybrid	Saurabh Kumar Yadav	23-02-2026	27-02-2026	1	Faculty, Tech Staff, M.Tech/Ph.D. Scholars, students	• Use LLMs for MATLAB code generation & debugging; Automate analysis & visualization tasks; Accelerate prototyping of engineering applications
146	CU223C	Human Factors and Ergonomics in Smart Factories	500	BBSR	Hybrid	Deepak Mehra	23-02-2026	27-02-2026	1	Faculty Members, Research Scholars, Students of Technical and Management Institutions of all disciplines	After completion of the programme, the participants will be able to ❖ **Recall** key ergonomic principles and smart factory technologies, such as automation and AI. ❖ **Explain** the importance of human factors in improving safety and performance in smart factory environments. ❖ **Apply** ergonomic principles to optimise workstation design and human-machine interactions. ❖ **Analyse** potential ergonomic risks and propose practical solutions for smart factory workers. ❖ **Evaluate** the effectiveness of ergonomic solutions in enhancing worker comfort, efficiency, and safety.

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147	CU191C	Database Management System	500	Kolkata	Hybrid	Jagadeesh M S	23-02-2026	27-02-2026	1	Faculty and Research scholars from any discipline	• Understand basic concepts of database systems; Design normalized database schemas; Write and execute SQL queries; Use database software tools effectively; Analyze and solve database-related problems; Develop database applications in teams; Learn and adapt to new database technologies
148	CU192C	Introduction to Artificial Intelligence	500	Guw	Contact	Indrajit Saha	23-02-2026	27-02-2026	1	Faculty , staff and Research scholars from any discipline	• Describe the fundamentals of Artificial Intelligence; Explain the fundamentals of Bayesian Network (BN) and Artificial Neural Network (ANN); Apply ANN for classification; Explain BN and ANN in classroom
149	PS65C	Assessment, Evaluation and Development of question bank	500	Kolkata	ICT	Sagarika Pal	23-02-2026	27-02-2026	1	Faculty , staff and Research scholars from any discipline	• Define Measurement, Assessment, Evaluation and Test; Construct the test items; Design the table of Specification; Prepare the question paper; Analyze the question paper; Develop question Bank
150	CU217A	Fault Detection, Classification and Location in Power System	1500	Kolkata	Hybrid	Papia Ray	**02/03/2026**	**06/03/2026**	**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 • identify the occurrence of fault in the power system • Incorporate various advanced techniques for fault detection, classification and location in a transmission and Distribution network • Explain in real time applications the fault analysis of the power network.
151	CU193C	Modern Teaching Practices with Technology in Education	500	Kolkata	Hybrid	Saurabh Kumar Yadav	09-03-2026	13-03-2026	1	Faculty, Tech Staff, MTech/Ph.D. Scholars	Implement active learning & flipped classroom models; Integrate digital/AI tools for engagement and assessment; Align methods with NEP 2020

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152	CU194B	Data Analytics with R	1000	Kolkata	ICT	Kinsuk Giri and Chandan Chakrabarty	09-03-2026	13-03-2026	1	Any Science and Engineering Stream	• 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 R statistical Programming and R Studio; Develop familiarity with the R data science ecosystem for class room teaching, practicing and project based learning
153	CU197C	AI Based Image Processing	500	BBSR	Contact	K Venkata Rao	09-03-2026	13-03-2026	1	Faculty, Staff Members, Research scholars from any discipline	• Segment and classify the objects in an image using YOLO variants; Segment and classify the objects in an image using segment anything models; Label the segments in an image; Develop innovative solutions to different engineering problems
154	PS66C	Introduction to Problem Based Learning	1000	Kolkata	e-STTP	Kinsuk Giri, Arpan Kumar Mondal, Indrajiat Saha, Sagarika Pal	09-03-2026	20-03-2026	2	Faculty members from all discipline	• 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
155	PS67C	Assessment, Evaluation and Development of question bank	500	Guw	Contact	Sagarika Pal	09-03-2026	13-03-2026	1	Faculty and staff of all disciplines	• Define Measurement, Assessment, Evaluation and Test; Construct the test items; Design the table of Specification; Prepare the question paper; Analyze the question paper; Develop question Bank

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156	PS71C	Disaster Resilience And Climate Adaptation	500	Kolkata	Hybrid	Anil Kumar and Kunwar R Singh	09-03-2026	13-03-2026	1	Faculty and staff of all disciplines	After completion of the program, the participants will be able to • Define resilience targets and apply resilience principles to infrastructure, public services (WASH, health, education) and ecosystems. • Co-design resilient solutions: flood-safe siting, resilient buildings/codes, Ahar-Pyne/ponds, green-blue networks, and ecosystem-based adaptation. • Integrate climate adaptation into urban and rural planning (land use, drainage, water security, heat action plans). • Use digital tools (GIS risk maps, asset criticality, simple dashboards) to monitor resilience and trigger early actions. • Establish governance and community mechanisms (ward committees, school safety, "Pani Mitras"/volunteer networks) for sustained resilience. • Deliver a concise Resilience & Adaptation Action Plan with KPIs, budget envelope and an implementation timeline.
157	CU195C	Education in the Age of Artificail Intellegenc	500	Guw	Contact	Saurabh Kumar Yadav	16-03-2026	20-03-2026	1	Faculty, Tech Staff, Research. Scholars from all discipline	• Adapt pedagogy to AI rich learning environments; Incorporate AI literacy into curriculum; Address ethical & practical implications of AI in education
158	PS77C	NBA Accreditation for polytechnic institutes	500	Kolkata	ICT	Rayapati Subbarao	16-03-2026	20-03-2026	1	Faculty of all disciplines from ploytechnic institutes	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.

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159	CU230C	Environmental Chemistry	1000	Kolkata	Hybrid	Kunwar R Singh	16/03/2026	27/03/2026	2	Faculty, Staff and research scholar from all disciplines	After completion of the programme, the participants will be able to • Understand the Fundamentals of Environmental Chemistry • Analyze Chemical Processes in Air, Water, and Soil • Evaluate Pollutants and Their Environmental Impact • Assess Water and Wastewater Chemistry
160	MGT14C	Project Management Techniques and Tools	500	Kolkata	ICT	Deepak Mehra	16/03/2026	20/03/2026	1	Faculty Members, Research Scholars, Students of Technical and Management Institutions of all disciplines	After completion of the programme, the participants will be able to ❖ **Recall** key concepts, terminologies, and methodologies in project management, including project life cycle, scope, schedule, and resource management. ❖ **Explain** the fundamental project management techniques and tools, such as Gantt charts, critical path method (CPM), and Agile methodologies. ❖ **Apply** project management tools and techniques to plan, execute, and monitor projects effectively, ensuring alignment with project goals and timelines. ❖ **Analyze** project data and performance metrics to identify risks, track progress, and implement corrective actions when necessary. ❖ **Evaluate** the success of project management practices in achieving project objectives, meeting stakeholder expectations, and ensuring efficient use of resources.
161	CU189C	Optimization with MATLAB	500	Kolkata	ICT	Nirmal Kumar Mandal	16/03/2026	20/03/2026	1	All Disciplines	After attending the programme the participants will be able to • Explain linear and nonlinear regression • Optimise a function using GA, PSO • Use MATLAB

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162	CU196C	Fundamentals of Artificial Intelligence	500	BBSR	Contact	Indrajit Saha	**23/03/2026**	**27/03/2026**	1	Faculty and staff of all disciplines	• Describe the fundamentals of Artificial Intelligence; Explain the fundamentals of Bayesian Network (BN) and Artificial Neural Network (ANN); Apply ANN for classification; Explain BN and ANN in classroom
163	CU198C	Nature-Inspired Optimization: for real world application of Artifical intelligence	500	Kolkata	Hybrid	Saurabh Kumar Yadav	**23/03/2026**	**27/03/2026**	1	Faculty, Tech Staff, MTech/Ph.D. Scholars, students	• 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
164	CU199C	Word Processing with LaTeX	500	Guw	Contact	Kinsuk Giri	**23/03/2026**	**27/03/2026**	1	Faculty and staff of all disciplines	• Get exposure in Word Processing Tools; Describe the fundamentals LaTeX programming; Apply LaTeX for preparing scientific and non-scientific documents
165	PS80C	NBA Accreditation and SAR preparation	500	Kolkata	ICT	Rayapati Subbarao	**23/03/2026**	**27/03/2026**	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.
166	CU218B	Electric Vehicle: charging station and Drives Control	1000	Kolkata	ICT	Papia Ray	**23/03/2026**	**27/03/2026**	**1**	Faculty & staff members of Electrical & Electronics Engg & related disciplines, mechanical engg from Degree & Diploma colleges, Industry person, Scientist, Research Scholars	After completion of the program, the participants will be able to • discuss the basic principles of operation of Electric vehicle, load Design and drives selection. • Explain Merits and Demerits of Electric Vehicle, state of charge of Electric Vehicle, Problems in Charging • Incorporate control algorithm in power converters and motors for smooth charging and discharging • Design Electric Vehicle and implement it in real time applications

Prog. Code: CU – Contant Update, PS – Professional Skill, MGT – Management
Prog. Mode: Contact - Offline, ICT – Online, Hybrid – Both online and offline
Venue: Kolkata Main Campus, BBSR – Bhubaneswar, Odisha Extension Centre, Guw – Guwahati, Assam Extension Centre.

Programme Calendar 2025-26

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

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

Sl. No.	Prog. Code	Programme Title	Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date		Week	Target Participant / Group	Programme Outcomes
							From	To			
167	CU200C	Python Programming	500	Kolkata	Hybrid	Jagadeesh M S	23-03-2026	27-03-2026	1	Faculty, Staff Members, Research scholars from any discipline	• Understand Python Syntax and Structure; Develop Problem-Solving Skills with Python; Work with Python Libraries and Frameworks; Implement Object-Oriented Programming (OOP) Principles; Collaborate and Share Code Using Git; Boost Career Readiness for Python Development Roles
168	CU201C	Integrated Circuit (IC) Design	500	Kolkata	ICT	Niladri Pratap Maity	23-03-2026	27-03-2026	1	Faculty members/Scientists/ Staffs of ECE/EE/CSE/IT/EE E/E&TC/EIE /Physics /Electronics and related subject	• Basic of IC Design; Follow Electron Device Modelling; 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
169	CU202C	Microprocessor and Microcontroller	500	Kolkata	Contact	Soumitra Kumar Mandal	23-03-2026	27-03-2026	1	Faculty and Lab Technician of Electrical Engineering and Allied discipline	After attending the programme, the participants will be able to • Describe Architecture and programming of 8085 Microprocessor and 8051 Microcontroller • Design interfacing circuits for Microprocessor based systems • Develop Microprocessor based projects • Write assembly language programs • Applications of 8085 Microprocessor 8051 Microcontroller

Prog. Code: CU – Contant Update, PS – Professional Skill, MGT – Management
Prog. Mode: Contact - Offline, ICT – Online, Hybrid – Both online and offline
Venue: Kolkata Main Campus, BBSR – Bhubaneswar, Odisha Extension Centre, Guw – Guwahati, Assam Extension Centre.

Programme Calendar 2025-26

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

GENERAL INSTRUCTIONS TO THE PARTICIPANTS

- Please send your application 20 days (for Contact Mode FDP) and preferably 7 days (for ICT/Online mode FDP) before the commencement of the programme.
- Applicants may send their applications by email/Post/Application Link (see institute's website: http://www.nitttrkol.ac.in) **along with payment details for each programme.**
- Participants are requested to submit only one application for a particular Faculty Development Programme (FDP)/ Short Term Training Programme (STTP).
- Selected participants will be received confirmation mail from the Academic Affairs. **Without prior confirmation nobody will be allowed to attend the training programme.**
- Participants are advised to complete the registration formalities before 9:30 a.m. on the first day of the programme at the Academic Affairs of NITTTR, Kolkata for offline programmes.
- After completing the registration formalities, you need to report to the respective coordinator(s). Necessary guidance from the Academic Affairs will be given in this respect.
- Last day of the training programme, certificates will be distributed by the coordinator(s) along with a release letter in case of offline courses and to be sent by mail in case of online courses.
- No leave(s) permissible during the training programme, except in case of emergency with submission of evidence of reason.
- The participants will be relieved only on the last day of the programme at 5.30 pm. If participants do not attend the full programme, neither certificate nor TA will be paid to them.
- The participants willing to attend the programmes at Extension Centers should contact the respective Consultant, Extension Centre / Academic Affairs for accommodation confirmation and food facility.

- **Essential Requirements for Certification:** i) Minimum 80% Attendance ii) Achievement of Minimum 40% of Total 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, Odisha Extension Centre, Guw – Guwahati, Assam Extension Centre.

- **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.