PROGRAMME CALENDAR 2023-24

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

TECHNICAL EDUCATION MISSION

TECHNICAL EDUCATION VISION

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

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

About Us

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

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

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

Preface

Like previous years, National Institute of Technical Teachers' Training and Research (NITTTR), Kolkata has prepared its Programme Calendar for the year 2023-24.

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

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

The schedules of the trainings planned in this calendar are not exhaustive. The Institute also provides trainings based on specific needs of various stake holders including Private Technical Institutes following the guidelines of the Institute. Further, In-House training may be organized to fulfil the requirement of Faculty Development Programme of various Technical Institutes.
It is intended that all Technical Institutes will come up with their needs and take advantage of services provided by NITTTR, Kolkata. This helps to upgrade the learning-teaching system of the institutes and in turn, enriches the education system of the country.

NATIONAL INSTITUTE OF TECHNICALTEACHERS' TRAINING AND RESEARCH, KOLKATA

Registration for STTP – Application Form

1 Prog. Code :

2 (a) Programme Title :

(b) Date : From: To:

(c) Prog. Coordinator(s) :

3 (a) Name (in CAPS) : First Middle Last

(b) Designation :

(c) Department :

(d) Institution :

(e) Institute Address :

Pin:

State

(f) Caste : (g) Gender

(h) Contact Number : Mobile

Email

4 Highest Academic Qualification:

Degree/Diploma	University/Others	Year of Passing	Class Obtained

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

6. Payment of Course Fees Rs. ..... Paid Yes ☐ No ☐,

If yes, Receipt No. _____

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

Date: Signature of the Applicant

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

Date: Signature of the Sponsoring Authority with Seal

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

Scan copy send by Email: ***academic@nitttrkol.ac.in***

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NATIONAL LEVEL FACULTY DEVELOPMENT PROGRAMMES

Sl. No.	Prog. Code	Programme Title	Course Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date		Week	Target Participant / Group	Programme Objectives
							From	To			
1.	CU01C	Data Analysis with MATLAB	300	In-house	Contact	Nirmal Kumar Mandal	As per Request	-	1	All Disciplines	After completion of the programme, the participants will be able to • Model a physical system • Classify data • Use MATLAB
2.	PS01F	Effective Teaching Learning Process using Instructional Media	Free	In-house956	Contact	Subrata Chattopadhyay	As per Request	-	3 Days	Faculty of all disciplines	After completion the programme, the participants will be able to • Prepare lesson Plan • Design Curriculum • Develop Instructional media • Suggest strategies to promote creativity in teaching-learning process • Apply techniques for appropriate assessment and evaluation • Introduce problem based learning techniques
3.	PS02A	Advanced Pedagogy	3000	In-house	Contact	Sagarika Pal	As per Request	-	2	Faculty of all disciplines	After completion the programme, the participants will be able to • Prepare lesson Plan • Design Curriculum • Develop Instructional media • Suggest strategies to promote creativity in teaching-learning process • Apply techniques for appropriate assessment and evaluation • Introduce problem based learning techniques

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4.	PS03F	Professional values and ethcs	Free	Kolkata	ICT	Mithu Dey	03/04/2023	07/04/2023	1	All Faculty and Staff	After completion the programme, the participants will be able to • understand the moral values that ought to guide the engineering profession • create an awareness on professional Ethics and Human Values. • resolve the moral issues in the profession • develop a set of beliefs, attitudes, and habits that professional should display regarding morality
5.	PS04F	Advanced Pedagogy	Free	Kolkata	ICT	Arpan Kumar Mondal & Sukanta Naskar	03/04/2023	14/04/2023	2	Technical teachers from all disciplines	After completion of the programme, the participants will be able to • Explain the need of 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
6.	CU02B	Software Modeling with Unified Modeling Language (UML)	420	Kolkata	Contact	Samir Roy	10/04/2023	12/04/2023	3 Days	Faculty of CSE / IT / MCA disciplines	After successful completion of this programme, the participants will be able to • Visualize a software under development • Create software models using UML • Expalin the software modelin with UML
7.	CU03A	Modern Control	1500	Kolkata	ICT	Prasanta Sarkar	10/04/2023	14/04/2023	1	Faculty of Engineering Disciplines	After completion the programme, the participants will be able to • Model physical systems in state space • Realise state space model from Transfer function • DetermineControllability and observability • Design controller and observer • Apply MATLAB Control System Toolbox

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8.	MGT01C	Laboratory Safety Management	300	Kolkata	Contact	Subrata Mondal	10/04/2023	14/04/2023	1	Faculty of all disciplines and laboratory technicians	After completion of the programme, the participants will be able to • demonstrate the safety management in the laboratory work areas; • evaluate the risk assessment for the hazardous laboratory works; • identify the emergency and safety equipment for laboratory works; • demonstrate fire safety management in the laboratory work areas; • describe the waste management for the laboratory etc.
9.	PS05F	Research Methodology & Statistical Application	Free	Kolkata	Contact	Chandan Chakraborty	10/04/2023	14/04/2023	1	Faculty of all disciplines	After completion of this programme, the participants will be accomplished to • Develop understanding of the research design, interdisciplinary research in the line of NEP 2020. • Explore about systematic literature review with PRISMA • Excel in-depth knowledge in statistical methods and models • Explore testing of hypothesis for scientific validation of research hypothesis. • Offer Hands-on-training on statistical data analysis • Demonstrate expertice on paper writing, thesis reporting etc.
10.	PS06C	Bloom's Taxonomy Based Question Paper Generation	300	Kolkata	ICT	Dipankar Bose	10/04/2023	14/04/2023	1	Faculty memebers of all disciplines from different technical institutions	After completion of the programme, the participants will be able to • understand Bloom's Taxonomy – Basic Features and domains • prepare question papers based on Bloom's Taxonomy

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11.	CU04B	Clean Drinking Water and Health	700	Kolkata	ICT	Sailendra Nath Mandal	17/04/2023	21/04/2023	1	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 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 demonstration in the laboratory/field.
12.	PS07C	Design and Development of content for e-Learning	300	Kolkata	ICT	Rajeev Chatterjee & Ranjan Dasgupta	17/04/2023	21/04/2023	1	Faculty of all disciplines	After completion of the programme, the participants will be able to • explain the concept of e-learning, TEL • explain synchronous and asynchronous e-learning models, • explain the various standards available for e-learning, • explain the basis terminologies such as Learning Objects, sharable Content Objects, SCO, • explain and demonstrate ADDIE Model of ISD, • Explain the importance of assessment and item development, • exhibit and demonstrate the process of e-content creation for MOOCs based e-content. • develop e-content chunks / learning object in their own subject domain, and • exhibit and demonstrate e-learning tools and technology. • Explain the concept of lifelong learning

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13.	PS08A	Advanced Pedagogy	3000	Kolkata	Hybrid	Sagarika Pal & Subrata Chattopadhyay	17/04/2023	28/04/2023	2	Faculty of all disciplines	After completion the programme, the participants will be able to • Prepare lesson Plan • Design Curriculum • Develop Instructional media • Suggest strategies to promote creativity in teaching-learning process • Apply techniques for appropriate assessment and evaluation • Introduce problem based learning techniques
14.	PS09C	NBA Accreditation and SAR Preparation	300	In-house	Contact	Arpan Kumar Mondal	17/04/2023	21/04/2023	1	Techical teachers from all disciplines	After completion the programme, the participants will be able to • Identify the Impact of NBA Accreditation • Prepare Vision, Mission, PEO and PSO • Prepare CO-PO mapping • Prepare pre-qualifier and SAR. • Illustrate Criteria 1 to 10 • Explain Washington accord • Discuss the essence of CEP and LLL
15.	PS10B	Thesis and Research paper writing	700	Kolkata	Contact	Rayapati Subbarao	17/04/2023	21/04/2023	1	Faculty of all disciplines	After completion of the programme, the participants will be able to • Describe the steps involved in writing a thesis. • Identify the scope of a thesis. • 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.
16.	PS11C	ICT Tools for Assessment	180	Kolkata	ICT	Kinsuk Giri	19/04/2023	21/04/2023	3 days	Faculty of all disciplines	On successful completion of the programme the participants will be able to • Illustrate the use of various ICT tools for Assessment • Apply different online tools for online assessment

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17.	CU05F	Introduction to Coding Theory	Free	BBSR	Contact	Rajeev Chatterjee	24/04/2023	28/04/2023	1	Faculty of all disciplines	After completion of the programme, the participants will be able to • Explain information, quality of Information, and Information entropy, • Demonstrate the working principles and design of AES, DES, • Demonstrate various encoding techniques like Arithmetic Encoding, Huffman Encoding, Hamming Code, Gray code, JPEG Encoding Standard, etc., • Demonstrate the applications of coding techniques in the area of Networking and Communication
18.	CU06F	Concept of Software Engineering	Free	Kolkata	Contact	Samir Roy & Ranjan Dasgupta	24/04/2023	28/04/2023	1	Faculty of CSE, IT, MCA disciplines	After completion of the programme, the participants will be able to • explain different quality aspects of a software • critically analyse different software development models • explain design theory
19.	CU07F	Ecology and Environment	Free	Guwahati	Contact	Uday Chand Kumar	24/04/2023	28/04/2023	1	Teachers and Staffs from all disciplines	After completion the programme, the participants will be able to • Define Ecology and Environment • Describe the relation between Ecology and Environment • Identify the causes of pollution • Explain the role of human towards environment
20.	CU08F	Power Electronics and Drive System	Free	Kolkata	Hybrid	Soumitra Kumar Mandal	24/04/2023	28/04/2023	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges in EE, ECE ,EEE and EIE	After completion the programme, the participants will be able to • Study performance characteristics of Power Electronics Devices • Describe operation & control of controlled converters • Illustrate the applications of converters in Electrical drive System

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21.	CU09F	Power Generation from Energy Resources	Free	Kolkata	ICT	Sheela Yadav Rai	24/04/2023	28/04/2023	1	Faculty from all Discipline	After completion of the programme, the participants will be able to • Identify the potential sources of conventional energies for power generation • Describe potential sources of non-conventional energies for power generation • Discuss environmental aspects of power generation • Appreciate about various power projects
22.	CU10C	Automation in Manufacturing	300	Kolkata	ICT	Nirmal Kumar Mandal	24/04/2023	28/04/2023	1	Mechanical, Production and Industrial	After completion of the programme, the participants will be able to • Explain Automation • Analyse the performance of Automated Manufacturing System
23.	CU11C	Engineering Optimization	300	Kolkata	Contact	Kinsuk Giri	24/04/2023	28/04/2023	1	Faculty from all Discipline	On successful completion of the programme, the participants will be able to •Explain the need for engineering optimization •describe the fundamentals of Optimization techniques •apply tools for problem solving in Optimization
24.	CU12C	AutoCAD for Engineers	300	Kolkata	Contact	Mithu Dey	01/05/2023	05/05/2023	1	Faculty of Civil , mechanical, electrical	After completion the programme, the participants will be able to • use different commands of the Software • Draw the 2D and 3D • Appreciate the use of AutoCAD in Engg.

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25.	MGT02B	Waste Management Technology	1400	Kolkata	ICT	Sailendra Nath Mandal	01/05/2023	12/05/2023	2	Faculty and Staff of any discipline	After attending the programme the participants will be able to acquire – • knowledge of basic concept of solid waste, wastewater, sampling, preservation, analysis, standards, interpretation of result and disposal of wastewater, Solid waste, impact on human health , •skill of online 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 demonstration in the laboratory/field.
26.	CU13C	SCILAB Programming	300	Kolkata	Contact	Kinsuk Giri	08/05/2023	12/05/2023	1	All	On successful completion of the programme the participants will be able to • Identify the need for and use of SCILAB • Discuss solution techniques • solve problems using SCILAB
27.	CU14F	Topics in Algorithm	Free	Kolkata	ICT	Samir Roy & Ranjan Dasgupta	08/05/2023	12/05/2023	1	Faculty of CSE, IT, MCA disciplines	After completion of the programme, the participants will be able to • Explain the fundamental concepts of analysis of algorithms • Identify different approaches to deal with computational problems
28.	CU15C	Power Electronics and Drive System	300	Guw	Contact	Soumitra Kumar Mandal	08/05/2023	12/05/2023	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges in EE, ECE ,EEE and EIE	After completion the programme, the participants will be able to • Study performance characteristics of Power Electronics Devices • Describe operation & control of controlled converters • Discuss applications of converters in Electrical drive System

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29.	CU16C	Refreshers course on Engineering Mechanics	300	Kolkata	ICT	Dipankar Bose	08/05/2023	12/05/2023	1	Faculty members with specialization ME,CE,AE, Production Engineering	After completion of the programme, the participants will be able to • identify various classifications of Engineering Mechanics • Explain the concept of statics • Explain the concept of dynamics • Identify practical applications of Engineering Mechanics • solve numericals related to engineering mechanics
30.	CU17A	IP Networking	3000	Kolkata	Contact	Rajeev Chatterjee	08/05/2023	19/05/2023	2	Faculty of CSE, IT Computer Application, Electronics, discipline	After completion of the programme, the participants will be able to • Explain the concept of Computer Network and Internetwork, • Demonstrate Network Media and Topology • Identify the various components of Network and Internetwork, • Explain the various protocols in TCP/IP Suite, • Explain the concept of switching and routing, • Demonstrate configuration of the devices such as routers, switches, etc., Design their own campus wide network and IT infrastructure,
31.	PS14C	Induction Training	300	Kolkata	e-STTP	Subrata Mondal	08/05/2023	12/05/2023	1	Faculty of all disciplines	After completion of the programme, the 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.

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32.	PS15F	Role of Technical Institutions in Community Development	Free	Kolkata	ICT	Sheela Yadav Rai	08/05/2023	12/05/2023	1	Faculty from all Discipline	• After completion of the programme, the participants will be able to • Identify various Community Development Schemes • Explain Feasibilty Report • Prepare Planning Report • Make the Curricula • Estimate the Training cost
33.	CU18C	MATLAB and its Applications	300	Kolkata	Hybrid	Prasanta Sarkar	15/05/2023	19/05/2023	1	Faculty and Technical Staff of Engineering Disciplines	After completion of the programme, the participants will be able to • Identify features of MATLAB commands • Use MATLAB Commands • Develop MATLAB script and function files • Solve Engineering Problems using MATLAB
34.	CU19F	Renewable Energy and Smart Grid	Free	Kolkata	Hybrid	Soumitra Kumar Mandal	15/05/2023	19/05/2023	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges in EE, ECe, EEE and EIE	After completion 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 & through field visit • Describe Modelling of Solar PV system • Explain operation and Control of Solar PV system • Explain fundamentals of Smart grid
35.	PS16C	Occupational Health and Safety Issues	300	BBSR	Contact	Uday Chand Kumar	15/05/2023	19/05/2023	1	Teachers and Staffs from all disciplines	After completion the programme, the participants will be able to • Identify occupation related issues in various activities. • Develop a comprehensive action plan for safety management.

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36.	PS17C	NBA Accreditation and SAR preparation	300	Kolkata	ICT	Rayapati Subbarao	15/05/2023	19/05/2023	1	Faculty of all disciplines	After completion of 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 • Explain the procedure for preparing SAR. • Establish correlations among the criteria i to x .
37.	PS18F	Engineering Pedagogy	Free	Kolkata	e-STTP	Nirmal Kumar Mandal	15/05/2023	26/05/2023	2	Faculty from all Disciplines	After completion of the programme, the participants will be able to • Teach technical subjects effectively in different domain and level of learning • Set question papers in different domain and level of learning
38.	PS19F	Assessment, Evaluation and Preparing Question Papers	Free	Kolkata	Hybrid	Sagarika Pal	22/05/2023	26/05/2023	1	Faculty of all disciplines	After completion of the programme, the participants will be able to • Define Measurement, Assessment, Evaluation and Test • Construct the test items • Design the table of Specification • Prepare the question paper • Analyse the question paper
39.	CU20C	Formal Languages and Automata	300	Kolkata	Contact	Samir Roy	22/05/2023	26/05/2023	1	Techniical teachers from all disciplines	After completion the programme, the participants will be able to • Apply the principles & techniques of Formal Languages and Automata in computational systems. • Implement Formal languages and Automata in software design. • Explain the concepts of Formal Languages and Automata in classroom

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40.	CU21A	Fundamentals of Image Processing	1500	Kolkata	ICT	Indrajit Saha	22/05/2023	26/05/2023	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges from CSE, IT, BCA, MCA, ECE, EE, ME, CIVIL depts.	After completion the programme, the participants will be able to • describe the fundamentals of image processing (IP) in MATLAB • apply MATLAB commands to do IP • explain image processing in classroom
41.	CU22C	Refresher Course on Machine Learning & Deep Learning	300	Kolkata	Hybrid	Chandan Chakraborty	22/05/2023	26/05/2023	1	Faculty of CSE, IT, MCA disciplines	• After completion of the programme, the participants will be able to • Discuss overview of ML and DL with Engineering applications, • Demonstrate classification and clustering techniques • Explain DL architectures and Transfer Learning • Discuss Examples
42.	PS20F	Advanced Pedagogy	Free	Kolkata	ICT	Habiba Hussain	22/05/2023	02/06/2023	2	Teachers from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion the programme, the participants will be able to • Analyse the strategies from basic • Explain the recent trend in curriculum design • Characterise hybrid mode in teaching • Practice a few active learning techniques • Develop instruction with a blended learning approach • Use technology in learning assessment

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43.	PS21B	Drinking Water Quality and Public Health	1400	Kolkata	ICT	Sailendra Nath Mandal	22/05/2023	02/06/2023	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 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 demonstration in the laboratory/field.
44.	PS22B	Journal Paper and Thesis writing	700	Kolkata	ICT	Subrata Chattopadhyay	22/05/2023	26/05/2023	1	Faculty of all disciplines	After completion of the programme, the participants will be able to • Explain Features, Importance, Characteristics, Concepts and Types Of Research Design • Illustrate Case Study Research • Develop expertice on Jounal paper writing • Develop expertice on Thesis writing
45.	PS23C	Development of Laboratory Instruction and Manual	300	Kolkata	Contact	Subrata Mondal	22/05/2023	26/05/2023	1	Faculty of all disciplines and laboratory technicians	After completion of the programme, the 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.

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46.	CU23C	Advance Programming in C	300	Kolkata	Contact	Rajeev Chatterjee	29/05/2023	02/06/2023	1	Faculty of all disciplines	After completion the programme, the participants will be able to • Demonstrate the various operation on single and multi –dimensional arrays and structures, • Demonstrate programs related to functions and pointers • Demonstrate programming skills on dynamic allocation of memory using linked list.
47.	PS24C	Holistic and Multidisciplinary Education	300	Kolkata	ICT	Urmila Kar	29/05/2023	02/06/2023	1	Faculty members and technicians from all Higher Educational Institutes	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 Explore the strategies in implementing Holistic and Multidisciplinary education in HEIs.
48.	CU24C	Finite Element Method using Software	300	Kolkata	ICT	Mithu Dey	05/06/2023	09/06/2023	1	Faculty of Civil , Mechanical	After completion the programme, the participants will be able to • Explain the use of FEM • Solve the problem using FEM • Discuss different features of FEM software
49.	CU25C	8085 Microprocessor	300	Kolkata	Hybrid	Soumitra Kumar Mandal	05/06/2023	09/06/2023	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges in EE, ECE, EEE and EIE	After attending the programme, the participants will be able to • Describe Architecture and programming of 8085 Microprocessor • Design interfacing circuits for Microprocessor based systems • Develop Microprocessor based projects • Write assembly language programs • Illustrate applications of 8085 Microprocessor

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50.	CU26F	Data Science in Engineering	Free	Kolkata	ICT	Nirmal Kumar Mandal	05/06/2023	09/06/2023	1	All Disciplines	After completion of the programme, the participants will be able to • Explain Design of Experiment • Perform statistical modelling of a engineering systems
51.	PS25C	Induction Training	300	BBSR	Contact	Sagarika Pal	05/06/2023	09/06/2023	1	Faculty of all disciplines	After completion the programme, the participants will be able to • Prepare the instructional objectives • Formulate the lesson plan • Differentiate between Assessment and Evaluation • Design the table of Specification • Prepare the question paper • Evaluate skill in the laboratory
52.	PS26C	Digital Tools for Teachers and Staff	300	Kolkata	ICT	Arpan Kumar Mondal & Kinsuk Giri	05/06/2023	09/06/2023	1	Technical Teachers and Staff from all disciplines	After completion the programme, 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 learning • Apply different online tools for online assessment • Incorporate different principles for effective online delivery
53.	PS27B	Creativity and Innovation	700	Kolkata	ICT	Dipankar Bose	05/06/2023	09/06/2023	1	Faculty memebers of all disciplines from different technical institutions	After completion of the programme, the participants will be able to • explain the concept of creativity • explain the techniques of creative problem solving • differentiate among creativity ,invention and innovation • Decribe the concept and process of innovation

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54.	PS28C	Student Friendly Methods of Instruction	300	Guw	Contact	Uday Chand Kumar	05/06/2023	09/06/2023	1	Faculty of all discipline	After completion of the programme, the participants will be able to • Identify attributes of student friendly instruction. • Plan student friendly activities • Demonstrate student friendly instruction. • Apply appropriate instructional strategy.
55.	CU28F	Commentary IS:456-2000 with Expected Modifications In the Forthcoming Revision	Free	Kolkata	ICT	Santanu Bhanja	12/06/2023	16/06/2023	1	Faculty of Civil, Architecture & allied disciplines	After completion the programme, the participants will be able to • Identify the steps to be taken for concrete production, quality control and testing • Interpret some of the important clauses of the code in their true letter and spirit • Implement the codal clauses in a better manner for design and construction of Civil Engineering Structures • Explain the philosophy and principles of Limit State Method in a comprehensive manner • Conceive that this code cannot be considered as a one package for the design of concrete structures and has to be mandatorily read in conjunction with other codes • Identify the major design and detailing considerations • Discuss amendments of this standard • Discuss limitations and probable modifications

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56.	CU29C	Introduction to Data Analytics with SPSS & Excel	300	Kolkata	Contact	Chandan Chakraborty & Samir Roy	12/06/2023	16/06/2023	1	Faculty of Engineering & Science disciplines	After completion of the programme, the participants will be able to • Deliver descriptive statistics for univariate, bivariate and multivariate data analysis, • Explore correlation and regression analysis (linear, multiple and logistic) • Address Curve fitting with Least Square method, • Demonstrate Testing of Hypothesis for statistical decision making, • Explore data classification and clustering methods. • Develop expertice on use of SPSS and Excel software through hands-on-training, • Draw Scientific interpretation as required for publication, thesis writing and report generation.
57.	CU30A	Introduction to Optical Fibre & Its Application	1500	Kolkata	Contact	Subrata Chattopadhyay	12/06/2023	16/06/2023	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion the programme, the participants will be able to • Discuss optical fibre and it's characteristics • Use of optical fibre as analog link • Apply optical fibre in voice communication • Study signal transmission by optical fibre using different modes of communication • Discuss merits and demerits of optical fibre • Discuss utility of optical fibre in modern technology • Perform various experiments of communication with optical fibre
58.	CU31A	Estimating & Costing of Non-conventional Energies	1500	Kolkata	ICT	Sheela Yadav Rai	12/06/2023	16/06/2023	1	All Discipline	After completion the programme, the participants will be able to • Describe various type of Non-conventional Energies Sources • Discuss the scope of Solar energy, Solar Thermal Conversion, Solar Collector, Wind Energy • Estimate costing of various energies

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59.	CU32B	Introduction to Data Science	700	Kolkata	ICT	Indrajit Saha	12/06/2023	16/06/2023	1	Technical Teachers and Staff from CSE, IT, BCA, MCA, ECE, EE, ME, CIVIL depts..	After completion the programme, the participants will be able to • analyze the data using various statistical methods in MATLAB • visualize the data for better understanding • develop prediction model for real-life data driven problems in MATLAB
60.	PS29A	Content Development and Assessment for e-Learning: MOOCs Basics and Tools	1500	Kolkata	ICT	Arpan Kumar Mondal &Kinsuk Giri	12/06/2023	16/06/2023	1	Technical teachers from all disciplines	After completion the programme, the participants will be able to • Explain the need for online pedagogy • Plan online instruction for MOOCs courses • Understand the use of various ICT tools for MOOCs, • Apply different online tools for ICT based teaching learning • Apply different online tools for online assessment for MOOCs
61.	PS30C	Research Methodology	300	Kolkata	Contact	Rayapati Subbarao	12/06/2023	16/06/2023	1	Faculty of all disciplines	After completion of 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.
62.											•
63.	PS32B	Soft skills development	700	Kolkata	ICT	Habiba Hussain	12/06/2023	16/06/2023	1	Teachers from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion of the programme, the participants will be able to • Identify essential soft skills needed by teachers in higher education • Develop emotional intelligence • Practice active listening • Demonstrate social skills

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64.	CU33B	Network Infrastructure Management	1400	Kolkata	Contact	Rajeev Chatterjee	12/06/2023	23/06/2023	2	Faculty of CSE, IT Computer Application, Electronics, discipline	After completion the programme, the participants will be able to • 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., • Develop exposure on Data Centre Management • Explain the concept of network security • Explain the Working Principle of Storage System
65.	CU34C	MATLAB & Simulink	300	Kolkata	Hybrid	Soumitra Kumar Mandal	19/06/2023	23/06/2023	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges in EE, ECE ,EEE and EIE	After completion the programme, the participants will be able to • Discuss fundamentals of MATLAB • Implement MATLAB Applications in Electrical Circuit, Control and Power System • Explain the different aspect of MATLAB & Simulink • Develop simple model using Simulink • Use MATLAB in analysis, design and simulation of Power Electronics
66.	CU35B	Non Traditional Machining Processes	700	Kolkata	Contact	Dipankar Bose	19/06/2023	23/06/2023	1	Faculty members with specialization ME, AE, Production Engineering	After completion the programme, the participants will be able to • explain various types of non-traditional machining processes • Explain working principles of different non-traditional machining processes • Develop exposure on various non-traditional machining processes through hands on practices

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67.	CU36B	Wastwater Treatment – Recent treands in regulatory norms and techlonogical advancement	700	Kolkata	ICT	Sailendra Nath Mandal	19/06/2023	23/06/2023	1	Faculty and Staff of any discipline	After attending the programme the participants will be able to acquire – • knowledge of basic concept of different parameter and treatment techniques of wastewater water • 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 demonstration in the laboratory/field.
68.	MGT03A	Strategic managemnt issues in technical institutions	1500	Kolkata	ICT	Sukanta Kumar Naskar	19/06/2023	23/06/2023	1	Teachers and managerial staff	After completion the programme, the participants will be able to • Explain the concept of strategic management • Apply the concept of strategic planning • Identify steps of strategic planning • Apply different tools of management

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69.	PS33F	Advanced Pedagogy	Free	Kolkata	ICT	Urmila Kar	19/06/2023	30/06/2023	2	Faculty members and technicians from all Higher Educational Institutes	After completion 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
70.	CU37C	Artificial Intelligence	300	Guw	Contact	Samir Roy	26/06/2023	30/06/2023	1	Faculty of CSE, IT, MCA disciplines	After completion the programme, the participants will be able to • Apply the principles & techniques of Artificial Intelligence in computational systems. • Implement Artificial Intelligence systems. Explain the concepts of Artificial Intelligence in classroom
71.	CU38A	Fuzzy and Rough Set Theory	1500	Kolkata	Contact	Samir Roy	03/07/2023	07/07/2023	1	Faculty of Engineering Disciplines	After successful completion the course the participant will be able to • Apply Fuzzy and Rough Set Theory in real-life problems. • Explain Fuzzy and Rough Set Theory in classroom • Design software using the concepts of Fuzzy and Rough Set Theory

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72.	CU39A	IoT application for sensor technology	1500	Kolkata	Hybrid	Sagarika Pal	03/07/2023	07/07/2023	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion the programme, the participants will be able to • Differentiate sensors, transducers and actuators • Explain principle of operation of different sensors, transducers and actuators • Explain need of IoT for sensor data communucation • Apply various IoT techniques for sensors
73.	CU40C	Testing of Concrete Material	300	Kolkata	Contact	Mithu Dey	03/07/2023	07/07/2023	1	Faculty of Civil and allied branch	After completion of the programme, the participants will be able to • Demonstrate the different test on bitumen • Handle the instrunment. • Explain the significance of test on bituminous material • Write the technical report
74.	CU41C	Hands on Practices on TIG and MIG Welding	300	Kolkata	Contact	Arpan Kumar Mondal	03/07/2023	07/07/2023	1	Technical teachers and Stafffrom Mechanical Engineering or allied disciplines	After completion of the programme, the participants will be able to • Explain the principles of advanced welding processes. • Perform independently various advanced welding processes: TIG, MIG, Welding • Perform various testing of welds

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75.	CU42B	Data Analytics	700	Kolkata	ICT	Chandan Chakraborty	03/07/2023	07/07/2023	1	Faculty of Science and Engineering	After completion of this course, the participants will be able to • Deliver descriptive statistics for univariate, bivariate and multivariate data analysis, • Predictive modelling with data • Curve fitting with Least Square method with data • Clustering and classification of data for decision making • Case studies
76.	PS34B	Curriculum Design Under OBE	700	Kolkata	In-house	Urmila Kar	03/07/2023	07/07/2023	1	Faculty members and technicians from all Higher Educational Institutes	After completion the programme, the participants will be able to • Demonstrate curriculum development process • Analyse content of technical curriculum • Identify the Features of Outcome Based Education System. • Explain the components and Features of Outcome Based Curriculum. • Develop Curriculum Content under Outcome Based Education
77.	PS35C	Drinking Water Treatment Process	300	Kolkata	ICT	Sailendra Nath Mandal	03/07/2023	07/07/23	1	Faculty and Staff of any discipline	After attending the programme the participants will be able to acquire – • knowledge of basic concept of different parameter and treatment techniques of Drinking water • 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 demonstration in the laboratory/field.

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							From	To			
78.	PS36C	Entrepreneurship Development	300	Guw	Contact	Subrata Mondal	03/07/2023	07/07/2023	1	Faculty of all disciplines	After completion of the programme, the participants will be able to • explore concept of entrepreneurship; • identify internal and external factors for entrepreneurship; • explore characteristics of an entrepreneur; • explore entrepreneurial motivation and barrier; • explore stages in entrepreneur process; • explore research commercialization; • explore technology business incubation Centre etc.
79.	CU43C	Introduction to Software-Defined Networking (SDN)	300	Kolkata	ICT	Rajeev Chatterjee	10/07/2023	14/07/2023	1	Faculty of CSE, IT Computer Application, Electronics, discipline	After completion the programme, the participants will be able to • Explain the concept of SDN, • Demonstrate controller management in SDN, • Exhibit the SD based WAN & Mobile Networks, and • Explain Security issues and Back-up Restoration in SDN.
80.	CU44B	Fluid Power Technology	700	Kolkata	Contact	Dipankar Bose	10/07/2023	14/07/2023	1	Faculty members with specialization ME, AE, Production Engineering	After completion the programme, the participants will be able to • explain classification of fluid powered systems • demonstrate working principles of various types of fluid powered systems through hands on practice • illustrate applications of fluid powered systems
81.	CU45B	PLC and Industrial Automation	700	Kolkata	ICT	Soumitra Kumar Mandal	10/07/2023	14/10/2023	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges in EE,ECE,EEE and EIE	After completion the programme, the participants will be able to • Describe the architecture of PLC • Develop PLC Programs • Apply PLC in Industrial Automation • Explain SCADA

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82.	CU46C	Mechanical Workshop Practice	300	Kolkata	Contact	Arpan Kumar Mondal	10/07/2023	14/07/2023	1	Technical teachers and Stafffrom Mechanical Engineering or allied disciplines	After completion of the programme, the participants will be able to • Classify various components of mechanical workshop. • Explain the principles of various metal working processes. • Practice on welding, forming, machine tools, CNC, mechanical testing etc
83.	PS37F	Induction training	Free	Kolkata	ICT	Habiba Hussain	10/07/2023	21/07/2023	2	Teachers from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion the programme, the participants will be able to • Identify the roles of a teacher • Follow professional ethics • Demonstrate teaching skills • Plan instruction • Differentiate the types of assessment • Facilitate learning
84.	PS38B	Effective Teaching and Research	700	Kolkata	ICT	Indrajit Saha	10/07/2023	14/07/2023	1	Teachers from all disciplines	After completion the programme, the participants will be able to • Demonstrate classroom teaching skills in different modes • Use digital tools in classroom teaching • Conduct research for academic development
85.	PS39C	Community Development through Technical Institutes	300	Kolkata	ICT	Sheela Yadav Rai	10/07/2023	14/07/2023	1	Faculty from all Discipline	After completion of the programme, the participants will be able to • Identify various Community Development Schemes • Explain Feasibilty Report • Prepare Reports • Make linkages with organisations

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86.	CU47C	Hands on Practices on TIG, MIG, PAW and MMW	300	Kolkata	Contact	Arpan Kumar Mondal	17/07/2023	21/07/2023	1	Technical teachers and Staff from Mechanical Engineering or allied disciplines	After completion of the programme, the participants will be able to • Explain the principles of advanced welding processes. • Perform independently various advanced welding processes: TIG, MIG, Pulsed TIG, Medium and Soft Plasma Arc Welding • Explain the physics of welding • Perform various testing of welds
87.	CU48C	Green Machining of Hard Materials	300	Kolkata	ICT	Nirmal Kumar Mandal	17/07/2023	21/07/2023	1	Mechanical, Production, & Industrial	After completion of the programme, the participants will be able to • Explain Hard Machining • Develop programs on CNC Vertical machining Centre. • Operate machining Centre.
88.	PS40C	Curriculum design approaches	300	Kolkata	ICT	Sukanta Kumar Naskar	17/07/2023	21/07/2023	1	Faculty and Staff of any discipline	After completion the programme, the participants will be able to • Analyze the components of a curriculum • Understand the different approaches (Including modern approaches in developing curricula • develop sample curriculum
89.	PS41B	Environmental Pollution and Climate Change	700	Kolkata	e-STTP	Sailendra Nath Mandal	17/07/2023	21/07/2023	1	Faculty and Staff of any discipline	After attending the programme the participants will be able to develop • knowledge of basic concept of Air pollution, Water pollution, Noise pollution, Light pollution and Climate change , • 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 demonstration in the laboratory/field.

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90.	PS42C	NEP 2020 : Reforms in HE	300	Kolkata	e-STTP	Urmila Kar	17/07/2023	21/07/2023	1	Faculty members and technicians from all Higher Educational Institutes	After completion of the programme, the participants will be able to • Explain the guiding principles of NEP 2020 • Explain new vision for India's higher education system • Explain the major reforms identified in NEP 2020 • Identify the role of teachers of Higher Education Institutes (HEIs) as revealed in NEP 2020.
91.	PS43C	SAR preparation for NBA	300	Kolkata	ICT	Rayapati Subbarao	17/07/2023	21/07/2023	1	Faculty of all disciplines	After completion of 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 • Explain the procedure for preparing SAR. • Establish correlations among the criteria i to x .
92.	PS44C	Development of Laboratory Instruction and Manual	300	BBSR	Contact	Subrata Mondal	17/07/2023	21/07/2023	1	Faculty of all disciplines and laboratory technicians	After completion of the programme, the 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.

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93.	CU49C	Utilization of Instructional Media and CAI in Effective Teaching	300	BBSR	Contact	Subrata Chattopadhyay	24/07/2023	28/07/2023	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion of the programme, the participants will be able to •Explain the utility of instructional media •Discuss the types of instructional media and its advantages •Demonstrate use of computer as instructional media and its advantages and limitations •Explain need for the courseware •Classify the Different types of courseware •Use Computer assisted instruction •Discuss the feathers of CAI •Explain different types of CAI •Create a model class with CAI
94.	CU50B	PLC and Automation	700	Kolkata	Hybrid	Sagarika Pal	24/07/2023	28/07/2023	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion the programme, the participants will be able to • Describe the architecture of PLC • Develop PLC Programs • Apply PLC in developing PID Controller • Apply PLC for various automation systems
95.	CU51B	Analysis,Design andEstimation ofR.C.C.Multistoried Building(ByLSM – Mannualy andusing software)	700	Kolkata	Contact	Uday Chand Kumar & Mithu Dey	24/07/2023	28/07/2023	1	Teachers of Civil, Architecture and allied discipline	After completion the programme, the participants will be able to • Calculate the load from different structural members • Analize the structures • Design different structural elements • Estimate the quantities of materials

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96.	CU52B	8086 Microprocessor	700	Kolkata	Hybrid	Soumitra Kumar Mandal	24/07/2023	28/07/2023	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges in EE, ECe, EEE and EIE	After completion the programme, the participants will be able to • Describe Architecture and programming of 8086 Microprocessor • Design interfacing circuits for Microprocessor based systems • Develop Microprocessor based projects • Write assembly language programs • Demonstrate applications of 8086 Microprocessor
97.	CU53B	Fundamentals of Data Security	700	Kolkata	ICT	Indrajit Saha	24/07/2023	28/07/2023	1	Teachers ofCSE, IT, BCA, MCA, ECE, EE, ME, CIVIL Depts.	After completion the programme, the participants will be able to • describe the fundamentals of Data Security • demonstrate how to maintain the privacy of computer data • explain network security in classroom
98.	CU54B	Mechanical Testing of Materials	700	Kolkata	Contact	Arpan Kumar Mondal	24/07/2023	28/07/2023	1	Technical teachers and Staff from Mechanical Engineering or allied disciplines	After completion the programme, the participants will be able to • Classify various mechanical characterization methods. • Explain the principles of various testing processes. • Practice on various testing methods viz. tensile testing, impact testing, hardness testing, metallurgical characterization, tribological characterization, etc.
99.	CU55F	Biomedical Engineering	Free	Kolkata	Hybrid	Chandan Chakraborty	24/07/2023	28/07/2023	1	Faculty of CSE, IT, ECE, MCA, BCA, ME, BME and Medical colleges	After completion of the programme, the participants will be able to • Discuss recent trends in biomedical engineering • Relate AI/ML with biomedical engineering • Discuss Statistics in biomedical engineering • Illustrate technologies in biomedical imaging applications • Discuss case studies for computer aided disease diagnosis

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100.	PS45F	Waste Water Treatment: Pollution Control and Reuse	Free	Kolkata	Contact	Subrata Mondal	24/07/2023	28/07/2023	1	Faculty of Chemical Engg. Environmental Engg., Science, Textiles Engg., and allied disciplines	After completion the programme, the participants will 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.
101.	CU56F	Air, Water Pollution and Health	Free	Guw	ICT	Sailendra Nath Mandal	31/07/2023	04/08/2023	1	Faculty and Staff of any discipline	After attending the programme the participants will be able to develop • knowledge of basic concept of Air pollution, Water pollution and impact on human health, • skill of handling conventional and modern sophisticated equipment, preparation of laboratory instruction sheets, interpreting experimental results, providing laboratory instruction such as to develop in enquiring attitude among students, preparing related test reports, • attitude of hands-on-working in the laboratory/field. (Plant Visit)
102.	CU57C	Introduction to Soft Computing	300	BBSR	Contact	Samir Roy	31/07/2024	04/08/2024	1	Faculty of Engineering Disciplines	After successful completion the course the participant will be able to • Apply Soft Computing techniques in solving real-life problems. • Explain the concepts of Soft Computing in classroom • Design software using the concepts Soft Computing

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103.	CU58C	Hands on Practices on Plasma, Pulsed TIG and Friction Stir Welding Process	300	Kolkata	Contact	Arpan Kumar Mondal	31/07/2023	04/08/2023	1	Technical teachers and Staff from Mechanical Engineering or allied disciplines	After completion of the programme, the participants will be able to • Explain the principles of advanced welding processes. • Perform independently various advanced welding processes: FSW, Pulsed TIG, Medium and Soft Plasma Arc Welding • Perform the various advanced welding processes • Perform various testing of welds
104.	CU59B	PYTHON Programming	700	Kolkata	Contact	Kinsuk Giri	07/08/2023	11/8/2023	1	Faculty and instructors from any discipline	On successful completion of the programme the participants will be able to • understand and explain the different aspects of PYTHON • apply PYTHON to solve problems • use PYTHON for visualizations
105.	CU60F	Polymer Composites and Nanocomposites	Free	Kolkata	ICT	Subrata Mondal	07/08/2023	11/08/2023	1	Faculty of Chemical Engg. Mechanical Engg., Science, Textiles Engg., Materials Sci. & Engg., Polymer Engg. and allied disciplines	After completion the programme, the participants will be able to • explain the fundamental concept of nanotechnology; • differentiate the microfillers and nanofillers; • explore the fundamental of polymeric composites and nanocomposites; • describe the properties of polymeric composites and nanocomposites; • explain the applications of polymeric composites and nanocomposites etc.

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106.	CU61A	Network Infrastructure and Cloud Security	1500	Kolkata	ICT	Rajeev Chatterjee & Ranjan Dasgupta	07/08/2023	11/08/2023	1	Faculty of CSE, IT Computer Application, Electronics, discipline	After completion the programme, the participants will be able to • Explain the concept of Computer Network and Internetwork • Illustrate Principles of Security • Describe ISO27001: 2013 • Demonstrate Network infrastructure elements • Explain Security Issues of Structure Cloud • Explain the concept of network security • Enlighten Application level security
107.	CU62B	Power Generation from Energy Resources	700	Kolkata	ICT	Sheela Yadav Rai	07/08/2023	11/08/2023	1	Faculty from all Discipline	After completion of the programme, the participants will be able to • Identify the potential sources of conventional energies for power generation • Describe potential sources of non-conventional energies for power generation • Discuss environmental aspects of power generation • Appreciate about various power projects
108.	PS46C	Student mentorship for holistic development	300	Kolkata	ICT	Habiba Hussain	07/08/2023	11/08/2023	1	Teachers from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion of the programme, the participants will be able to • Identify the roles of coach & mentor • Explain mentorship styles • Characterise holistic development • Encourage growth mindset
109.	PS47C	Innovation and Startup in Higher Education Institutions	300	Kolkata	Contact	Prasanta Sarkar	07/08/2023	11/08/2023	1	Faculty of Engineering Disciplines	After attending the programme, the participants will be able to • Create awareness on Entrepreneurship development among students and faculty • Promote entrepreneurship • Provide support service fo incubation and startup

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110.	SPL11C	Outcome Based Accreditation and NBA	300	Kolkata	ICT	Urmila Kar	07/08/2023	11/08/2023	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 • explain the need for and features of Outcome Based Education (OBE) • justify the requirement of Outcome Based Accreditation (OBA) • identify parameters for OBA • explain the features of Outcome Based Curriculum (OBC) • identify outcome based learning-teaching and assessment processes explain the process of preparing self-assessment report (SAR) for Accreditation by NBA
111.	SPL12C	Refreshers course on Engineering Mechanics	300	Kolkata	ICT	Dipankar Bose	07/08/2023	11/08/2023	1	Faculty members with specialization ME,CE,AE, Production Engineering	After completion of the programme the participants will be able to •know various classifications of Engineering Mechanics •understand the concept of statics •understand the concept of dynamics •know practical applications of Engineering Mechanics •solve numericals related to engineering mechanics
112.	PS13B	Effective classroom communication	700	Kolkata	ICT	Habiba Hussain	14/08/2023	18/08/2023	1	Teachers from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion the programme, the participants will be able to • Categorise the patterns in classroom communication • Listen actively • Promote discussion among learners Provide meaningful feedback
113.	PS48B	Language and Presentation of Research Papers	420	Kolkata	Contact	Samir Roy	16/08/2023	18/08/2023	3 days	Faculty of all disciplines	After successful completion of this course the participants will be able to • Write research papers with appropriate language • Develop presentations for research papers. • Deliver presentations on research paper.

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114.	CU63A	Engineering Capstone Project	1500	Kolkata	ICT	Prasanta Sarkar	21/08/2023	25/08/2023	1	Faculty and Technical Staff of all Disciplines	After completion the programme, the participants will be able to • Form Capstone Project Team • Identify Capstone Project topic • Prepare Capstone Project proposal • Develop Capstone Project • Assess Capstone Project
115.	CU64A	Introduction to Machine Learning	1500	BBSR	Contact	Indrajit Saha	21/08/2023	25/08/2023	1	Teachersfrom all disciplines CSE, IT, BCA, MCA ECE, EE, ME, CIVIL	After completion the programme, the participants will be able to • describe the fundamentals of Machine Learning (ML) • apply ML for clustering, classification and regression • explain machine learning in classroom
116.	CU65B	Applications of MATLAB	700	Kolkata	Hybrid	Sagarika Pal	21/08/2023	25/08/2023	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion the programme, the participants will be able to • Use MATLAB commands • Apply Control System Tool Box Commands • Illustrate Simulink Modelling techniques • Apply Image processing Tool Box Commands • Apply Fuzzy Logic Tool Box • Create GUI using GUIDE
117.	CU66B	LABVIEW and its Applications	700	Kolkata	Hybrid	Soumitra Kumar Mandal	21/08/2023	25/08/2023	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges in EE, ECE, EEE and EIE	After completion the programme, the participants will be able to • Discuss fundamentals of LABVIEW • Implement LABVIEW Applications in Control Engineering

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118.	CU67C	Utilization of Instructional Media and CAI in Effective Teaching	300	Guw	Contact	Subrata Chattopadhyay	21/08/2023	25/08/2023	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion of the programme, the participants will be able to • Explain the utility of instructional media • Discuss the types of instructional media and its advantages • Demonstrate use of computer as instructional media and its advantages and limitations • Explain need for the courseware • Classify the Different types of courseware • Use Computer assisted instruction • Discuss the feathers of CAI • Explain different types of CAI • Create a model class with CAI
119.	CU68C	Machine Learning & Statistical Computing using R Programming	300	Kolkata	Contact	Chandan Chakraborty	21/08/2023	25/08/2023	1	Faculty of Engineering disciplines	After completion of the programme, the participants will be able to • Discuss overview of ML • Demonstrate classification and clustering techniques • Explain various statistical models for predictive analytics • Illustrate Data fitting with regression models. • Discuss basics of R programming and its Hands-on-Training for few case studies
120.	CU69C	Concrete Mix Proportioning as per IS 10262 - 2019	300	Kolkata	Hybrid	Santanu Bhanja	21/08/2023	25/08/2023	1	Faculty of Civil, Architecture & allied disciplines	After completion of the programme, the participants will be able to • Discuss the process of selection of good ingredients of concrete • Identify the important properties of concrete • Explain the process of concrete mix design as per the latest code of practice • Discuss mix design of different types of concrete • Identify different types of admixtures and their use

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121.	MGT04B	Managerial skills for technical teachers	700	Kolkata	ICT	Sukanta Kumar Naskar	21/08/2023	25/08/2023	1	Faculty and Staff of any discipline	After completion the programme, the participants will be able to • Demonstrate the managerial skill effectively • Identify managerial skills of a teacher
122.	PS49B	Testing of Drinking Water and Health	700	Kolkata	Contact	Sailendra Nath Mandal	21/08/2023	25/08/2023	1	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 handling conventional and modern sophisticated equipment, preparation of laboratory instruction sheets, interpreting experimental results, providing laboratory instruction such as to develop in enquiring attitude among students, preparing related test reports, related to engineering chemistry, • attitude of hands-on-working in the laboratory/field. (Plant Visit)
123.	PS50C	NBA Accreditation and SAR Preparation for Engineering Colleges	300	Kolkata	ICT	Arpan Kumar Mondal &Ranjan Dasgupta	21/08/2023	25/08/2023	1	Technical teachers from all disciplines	After completion the programme, 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-qualifier and SAR. • Practice Criteria 1 to 10 • Understand the washington accord • Understand the esence of CEP and LLL
124.	SPL13C	NBA Accreditation (Pre-qualifier and SAR preparation)	300	Kolkata	Contact	Uday Chand Kumar and Rayapati Subbarao	21/08/2023	25/08/2023	1	Polytechnic Teachers from all disciplines	After completion of 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 • Explain the procedure for preparing SAR. Establish correlations among the criteria i to x .

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125.	SPL14C	Non Traditional Machining Processes	300	Kolkata	ICT	Dipankar Bose	21/08/2023	25/08/2023	1	Faculty members with specialization ME, AE, Production Engineering	After completion of the programme the participants will be able to • explain various types of non-traditional machining processes • understand working principles of different non-traditional machining processes
126.	CU70B	Analysis and Design of Structures using SAP 2000	1400	Kolkata	ICT	Mithu Dey	28/08/2023	01/09/2023	1	Faculty of Civil and allied branch	After completion the programme, the participants will be able to • Describe different methods of analysis using software • use of relevant codes for design and detailing of RC structures Explain different features of SAP 2000
127.	CU71C	Mobile and Wireless Network	300	Kolkata	Contact	Rajeev Chatterjee	28/08/2023	01/09/2023	1	Faculty of CSE, IT Computer Application, Electronics, discipline	After completion the programme, the participants will be able to • Explain the basic concept of mobile and wireless network • Design of Enterprise Wireless LAN • Explain Mobile IP Network • Explain IdAM system
128.	PS51C	Accreditation for Engineering colleges and Polytechnics	300	Kolkata	ICT	Rayapati Subbarao	28/08/2023	01/09/2023	1	Faculty of all engineering disciplines	After completion of the programme, the participants will be able to • Identify the basics of Accreditation. • Prepare Vision, Mission, Program Educational Objectives • Prepare Outcomes and Program Outcomes. • Learn how to prepare SAR. Practice Criteria i to x.

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129.	CU72C	Nonconventional Energy	300	Kolkata	Contact	Subrata Chattopadhyay	04/09/2023	08/09/2023	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion of the programme, the participants will be able to • Identify different types of non conventional energy sources and their applications. • Discuss solar energy, Utilization of it, Principles involved in solar energy. • Explore the concepts involved in wind energy • Illustrate Tidal and wave energy and the operational • Illustrate Geothermal energy.
130.	CU73C	Word Processing with LaTeX	300	BBSR	Contact	Kinsuk Giri	04/09/2023	08/09/2023	1	Faculty of all engineering disciplines	On successful completion of the programme the participants will be able to •develop exposure in Word Processing Tools •describe the fundamentals LaTeX programming • apply LaTeX for preparing scientific and non-scientific documents
131.	SPL15C	Evaluation & Designing Question Paper	300	In-House	Contact	Habiba Hussain	04/09/2023	08/09/2023	1	Faculty Members and Technicians from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	
132.	CU74C	Design & Analysis of Algorithm	300	Kolkata	Hybrid	Samir Roy & Ranjan Dasgupta	11/09/2023	15/09/2023	1	Faculty of CSE, IT Computer Application, and related disciplines	After successful completion of the program, the participants will be able to • Design an Algorithm • Analyse an algorithm Explain the concepts of Design & Analysis of Algorithms

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133.	CU75B	LABVIEW Programming and Applications	700	Kolkata	Hybrid	Sagarika Pal	11/09/2023	15/09/2023	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion the programme, the participants will be able to • Explain features of LABVIEW • Create VI files • Apply VI files in various fields • Apply Data Acquisition System in LABVIEW
134.	CU76B	Laboratory Practice in Wastewater	700	Kolkata	Contact	Sailendra Nath Mandal	11/09/2023	15/09/2023	1	Faculty and Staff of any discipline	After attending the programme the participants will be able to acquire – • knowledge of basic concept of different parameter of wastewater, sampling, preservation, analysis, standards, interpretation of result and impact on human health , • skill of handling equipment, 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 solid waste, wastewater analysis/ treatment laboratory, • attitude of hand-on working in the laboratory/field (Plant Visit)

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135.	CU77B	Advanced Materials Science and Engineering	700	Kolkata	Contact	Subrata Mondal	11/09/2023	15/09/2023	1	Faculty of Chemical Engg. Mechanical Engg., Science, Textiles Engg., Materials Sci. & Engg., Polymer Engg. and allied disciplines	After completion the programme, the participants will be able to • explain the structure sensitive properties of polymers, metals and alloys; • explain the fundamental of nanomaterials, types of nanomaterials, principle methods of nanomaterials preparation, properties and applications; • explain types, manufacturing process, properties and applications of metal matrix, ceramic matrix and polymer matrix composites/nanocomposites; • explain biocompatible and biodegradable materials, characteristics and applications for various biomaterials etc.
136.	CU78B	Power Generation from Energy Resources	700	BBSR	Contact	Sheela Yadav Rai	11/09/2023	15/09/2023	1	Faculty from all Discipline	After completion of the programme, the participants will be able to • Identify the potential sources of conventional energies for power generation • Describe potential sources of non-conventional energies for power generation • Discuss environmental aspects of power generation • Appreciate about various power projects
137.	CU79F	Refresher Course on Fluid Mechanics	Free	Kolkata	ICT	Dipankar Bose	11/09/2023	15/09/2023	1	Faculty members with specialization ME,CE, AE, Production Engineering	After completion of the programme, the participants will be able to • Identify classification and properties of fluid • state principles of hydrostatics and buoyancy • explain the principle of dynamics of flow • Explain the concept of flow through pipes and open channel flow

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138.	CU80C	Computational techiques for mechanical engineers	300	Kolkata	Contact	Rayapati Subbarao	11/09/2023	15/09/2023	1	Faculty of mechanical engineering disciplines	After completion of the programme, the participants will be able to • Identify the purpose of Computational Techniques • Understand and write applicable programs in C. • Appreciate tools like MS Excel and Origin. • Gain exposure to various software packages to solve problems in Mechanical Engineering.
139.	CU81C	Building Construction, Repair and Maintenance	300	Guw	Contact	Uday Chand Kumar	11/09/2023	15/09/2023	1	Teachers and Staffs from all disciplines	After completion of the programme, the participants will be able to • Describe the steps for construction of Masonry and R.C.C. building. • Describe the importance of centering, shuttering, scaffolding as required. • State the reasons for maintenance of building
140.	CU82C	Embedded System and 8051 Microcontroller	300	Kolkata	ICT	Soumitra Kumar Mandal	11/09/2023	15/09/2023	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges in EE, ECE, EEE and EIE	After completion of the programme, the participants will be able to • Describe Architecture and programming of 8051 Microcontroller • Design interfacing circuits for Microcontroller based systems • Develop Microcontroller based projects • Write assembly language programs • Describe Embedded System and it's applications
141.	PS52B	Effective training	700	Kolkata	ICT	Sukanta Kumar Naskar	11/09/2023	15/09/2023	1	Teachers and support staff	After completion the programme, the participants will be able to • Identify the stages for conducting a training programme • Design a training programme • Apply different techniques for conducting a training programme • Evaluate effectively outcome of a training programme

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142.	CU83F	Engineering Capstone Project	Free	BBSR	Contact	Prasanta Sarkar	18/09/2023	22/09/2023	1	Faculty and Technical Staff of all Disciplines	After completion the programme, the participants will be able to • Form Capstone Project Team • Identify Capstone Project topic • Prepare Capstone Project proposal • Develop Capstone Project Assess Capstone Project
143.	CU84B	Statistical Methods in Data Analysis	700	Kolkata	e-STTP	Chandan Chakraborty	18/09/2023	22/09/2023	1	Faculty of all disciplines	After completion the programme, the participants will be able to • Discuss overview on data summarization and visualization • Explain concept of probability and its various distributions • Explain correlation and linear/non-linear regression analysis • Test hypothesis for research data analysis • Demonstrate statistical software using SPSS, Python.
144.	CU85C	Modelling with AUTOCAD and SOLIWORKS	300	Kolkata	Contact	Nirmal Kumar Mandal	18/09/2023	22/09/2023	1	Faculty from all Disciplines	After completion of the programme, the participants will be able to • Use various drafting and editing tools • Model 3D parts using AUTOCAD and SOLIWORKS

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145.	PS53F	Induction Training	Free	Kolkata	Hybrid	Urmila Kar	18/09/2023	29/09/2023	2	Faculty Members and Technicians from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion the programme, the participants will be able to • explain the quality issues in Technical Education and Role of Teachers • illustrate the process involved in Curriculum Development, Implementation and Reforms • decide learning outcomes of specific course • identify teaching strategy, methods and skills • plan instruction • assess performance of learners • Identify quality parameters in institutional development • Illustrate the process of accreditation for technical institutes • Explain professional values and ethics of teachers • Promote Technology Enable Learning (TEL) • Identify Learning Style of students • Identify style of teaching • Explain the need for active learning for 21st century learners • Plan instruction for active learning • Decide assessment tools for active learning
146.	SPL26C	Enhancing Teaching Skills Using Technology	600	Kolkata	ICT	Mithu Dey	18/09/2023	29/09/2023	2	Faculty from all Disciplines	
147.	CU86C	Object Oriented Design & Programming in C++	300	Kolkata	Contact	Rajeev Chatterjee & Samir Roy	25/09/2023	29/09/2023	1	Faculty of CSE, IT Computer Application, Electronics, Electrical, Mathematics disciplines	After completion the programme, the participants will be able to • Create an Object-Oriented Model of a software, • Use of UML for Software Design • Write a Program in C++ to solve a computational problem • Compile, debug and execute a program in C++ • Apply objects, classes, inheritance, polymorphism etc. to implement object-oriented programming.

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148.	CU87F	Fundamentals of Machine Learning and Deep Learning	Free	Kolkata	ICT	Indrajit Saha	25/09/2023	29/09/2023	1	Faculty members from CSE, IT, BCA, MCA ECE, EE, ME, CIVIL	After completion the programme, the participants will be able to • describe the fundamentals of Machine Learning (ML) and Deep Learning • apply ML for clustering, classification and regression • explain machine learning in classroom
149.	CU88A	Shear Wall Design Using Interaction Charts Highlighting the Shortcomings of !S 13920-2016	1500	Kolkata	Contact	Santanu Bhanja	25/09/2023	29/09/2023	1	Faculty of Civil, Architecture & allied disciplines, Students, Industry people, Working Engineers	After completion the programme, the participants will be able to • Explain the fundamental principles of RC design as per Indian Standards - the fundamentals of Limit State Method and need for ductility design • RC Shear Walls – Failure modes and Analysis • Design as per IS 13920-2016 • Develop Interaction Charts for Shear Walls • Apply a standard software for analysis and design
150.	PS55F	Ethics, Values and Morality	Free	Kolkata	Contact	Uday Chand Kumar	04/10/2023	06/10/2023	3-days	Teachers and Staffs from all disciplines	After completion the programme, the participants will be able to • Differentiate between ethics, values and morality. • Create an awareness among the human being
151.	SPL16C	Item generation & Question banking	300	BBSR	Contact	Habiba Hussain	03/10/2023	07/10/2023	1	Faculty Members and Technicians from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	

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152.	CU89B	Intelligent Search Techniques	420	Kolkata	Contact	Samir Roy	09/10/2023	11/10/2023	3-days	Faculty of CSE / IT / MCA disciplines	After successful completion of this course the participants will be able to • Explain the various search techniques of AI • Develop software to carry out intelligent search • Apply intelligent search as a problem solving strategy.
153.	CU90A	Introduction to Image Processing	1500	Kolkata	ICT	Indrajit Saha	09/10/2023	13/10/2023	1	Teachersfrom all disciplinesCSE, IT, BCA, MCA ECE, EE, ME, CIVIL	After completion the programme, the participants will be able to • describe the fundamentals of image processing (IP) in MATLAB • apply MATLAB commands to do IP • explain image processing in classroom
154.	CU91C	Laboratory Practice in Engineering Chemistry	300	Kolkata	Contact	Sailendra Nath Mandal	09/10/2023	13/10/2023	1	Faculty and Staff of Chemistry discipline	After attending the programme the participants will be able to gain and develop– • knowledge of 'modern principles of laboratory experimentation' in engineering chemistry, • skill of handling conventional and modern sophisticated equipment, preparation of laboratory instruction sheets, interpreting experimental results, providing laboratory instruction such as to develop in enquiring attitude among students, preparing related test reports, related to engineering chemistry, • attitude of hands-on-working in the laboratory/field. (Plant Visit)

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155.	CU92B	Modelling, Analysis and Design of Buildings with a Versatile Structural Engineering Software	700	Kolkata	ICT	Santanu Bhanja	09/10/2023	13/10/2023	1	Faculty of Civil, Architecture & allied disciplines	After completion of the programme, the participants will be able to • Be acquainted with the basic methodology of software application in structural analysis and design of RC buildings • Apply latest IS codal provisions in analysis, design and detailing like IS 456, 1893, 875, 13920 etc. • Know the basic features of a universally accepted standard software-ETABS • Analyse, Design and Detail real life multi-storeyed buildings
156.	PS56F	Implementing Experiential Learning	Free	Kolkata	ICT	Dipankar Bose	09/10/2023	13/10/2023	1	Faculty memebers of all disciplines from different technical institutions	After completion of the programme, the participants will be able to • Explain the concept of Experiential Learning • Discuss Kolb's Learning Cycle • explain Techniques for Experiential Learning • conduct Experiential Learning Activities
157.	CU93C	Machine Learning with MATLAB	300	Kolkata	ICT	Nirmal Kumar Mandal	09/10/2023	13/10/2023	1	Faculty from all Disciplines	After completion of the programme, the participants will be able to • Explain machine learning • Use MALAB in modelling • Classify data
158.	CU94F	R Programming	Free	Kolkata	ICT	Kinsuk Giri	09/10/2023	13/10/2023	1	All Faculty from all Disciplines	On successful completion of the programme the participants will be able to • Explain the different aspects of R • Apply R to solve basic problems • Use R for visualizations

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159.	MGT05C	Leadership & People Management	300	Kolkata	ICT	Habiba Hussain	09/10/2023	13/10/2023	1	Teachers from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion of the programme, the participants will be able to • Characterise academic leadership • Build learning teams • Identify different leadership styles • Manage people through improved skills
160.	PS57C	Induction Training	300	Kolkata	ICT	Sheela Yadav Rai	09/10/2023	13/10/2023	1	Faculty from all Discipline	After completion of the programme, the participants will be able to • Formulate the lesson plan • Prepare the instructional objectives • Identify the principles of evaluation • Distinguish between types of evaluation
161.	SPL17C	Managerial Practice for office staff	300	BBSR	Contact	Sukanta Kumar Naskar	09/10/2023	13/10/2023	1	Officers / Technicians/ Secretarial staff / DTE official from all Higher Educational Institutes	
162.	CU27B	Control System analysis and Design with MATLAB	700	Kolkata	Hybrid	Prasanta Sarkar	09/10/2023	13/10/2023	1	Faculty of Engineering Disciplines	After completion the programme, the participants will be able to • Model physical systems • Analyze in time & frequency domain • Determine input – output stability • Design controller Apply MATLAB Control System Toolbox
163.	SPL33C	Software Quality Issues	180	Kolkata	Hybrid	Ranjan Dasgupta	16/10/23	18/10/23	3 Days	Teachers of CSE/IT/MCA with interest in SE	Participants will get exposure in • Different quality aspects of software • Techniquies used to embed the quality Limitations in such applications

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164.	PS59C	Outcome Based Accreditation and NBA	300	Kolkata	ICT	Urmila Kar	16/10/2023	20/10/2023	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 • explain the need for and features of Outcome Based Education (OBE) • justify the requirement of Outcome Based Accreditation (OBA) • identify parameters for OBA • explain the features of Outcome Based Curriculum (OBC) • identify outcome based learning-teaching and assessment processes • explain the process of preparing self-assessment report (SAR) for Accreditation by NBA
165.	PS60B	Developing life skills	420	Kolkata	ICT	Sukanta Kumar Naskar	18/10/2023	20/10/2023	3-days	Teachers and support staff	After completion the programme, the participants will be able to • Identify essentials life skills • apply them effectively
166.	CU95F	Innovation and Startup in higher Education Institutions	Free	Kolkata	Hybrid	Prasanta Sarkar	30/10/2023	03/11/2023	1	Faculty of Engineering Disciplines	After completion the programme, the participants will be able to • Create awareness on Entrepreneurship development among students and faculty • Promote entrepreneurship • Provide support service for incubation and start-up
167.	PS61C	NBA Accreditation and SAR preparation	300	BBSR	Contact	Rayapati Subbarao	30/10/2023	03/11/2023	1	Faculty of all disciplines	After completion of 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 • Explain the procedure for preparing SAR. • Establish correlations among the criteria i to x .

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168.	SPL10F	Introduction to Applied IP Networking	Free	Kolkata	Contact	Rajeev Chatterjee	30/10/2023	03/11/2023	1	Faculty and Staff of any discipline having basic knowledge Computer Networking and Internet	After successful completion of this program the participants will be able to: 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, Analyse 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
169.	CU96C	RC Design – Limit State Method and Beyond	300	Kolkata	ICT	Santanu Bhanja	06/11/2023	10/11/2023	1	Faculty of Civil, Architecture & allied disciplines	After completion of the programme, the participants will be able to • Be acquainted with the fundamentals of Limit State Method of Design as per Indian Standards IS 456-2000 and IS 13920-2016 highlighting the design philosophy of prescriptive method of design • Be introduced to Performance based seismic design • Be acquainted with the shortcomings of the standards in dealing with high grades of concrete and identify the grades of steel that are suitable for seismic design • Be introduced to overall design philosophy rather than mechanically using some design aids or charts • Analyze, Design and Detail foundations for real life multistoried buildings using the basic features of different software

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170.	CU97C	Mathematical Logic	300	In-house	Contact	Samir Roy	06/11/2023	10/11/2023	1	Faculty of all disciplines	After successful completion of this course the participant will be able to • Explain the concepts of Mathematical Logic • Apply Mathematical Logic in problem solving
171.	SPL34C	Design of Payroll System following SE Principles	180	Kolkata	Hybrid	Ranjan Dasgupta	06/11/23	08/11/23	3 Days	Teachers of CSE/IT/MCA with interest in SE	Participants will get exposure in • Various aspects of Payroll System • SE design methodologies A prototype design
172.	CU98A	MATLAB & Fuzzy Logic Control	1500	Kolkata	Hybrid	Soumitra Kumar Mandal	06/11/2023	10/11/2023	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges in EE, ECE ,EEE and EIE	After completion the programme, the participants will be able to • Understand fundamentals of MATLAB • Implement MATLAB Applications in Control System • Explain the different aspect of Fuzzy Logic Control • Develop simple model using Fuzzy tool box
173.	CU99B	Renewable Energy Sources and Emerging Technologies	700	In-house	Contact	Sheela Yadav Rai	06/11/2023	10/11/2023	1	All Discipline	After completion the programme, the participants will be able to • Identify Energy Sources and their utilization • Explain Environmental aspects of electric energies generation • Explain the scope of Solar Thermal Conversion and Solar Photovoltaic system • Describe about wind energy, Geothermal energy and Biomass • Apply Non-conventional energies through various agencies viz.WBREDA

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174.	CU100B	Fusion Welding Processes	700	Kolkata	Contact	Dipankar Bose	06/11/2023	10/11/2023	1	Faculty members and Technical Staff Members of Technical Institutions with, ME, Production and Automobile Engineering	After completion of the programme, the participants will be able to • explain various types of fusion welding processes • understand working principles of different fusion welding processes • state characteristics of various fusion welding processes • Hands on practices on various fusion welding processes
175.	CU101B	Problem Solving with PYTHON	700	In-house	ICT	Kinsuk Giri	06/11/2023	10/11/2023	1	Any Sciene and Engineering Streams	On successful completion of the programme the participants will be able to • learn the grammars of PYTHON language • apply PYTHON to solve problems • use PYTHON for ML and Data Analysis
176.	PS62C	Induction Training	300	Guw	Contact	Sagarika Pal	06/11/2023	10/11/2023	1	Faculty of all disciplines	After completion the programme, the participants will be able to • Prepare the instructional objectives • Formulate the lesson plan • Differentiate between Assessment and Evaluation • Design the table of Specification • Prepare the question paper • Evaluate skill in the laboratory
177.	SPL18C	Problem solving and decision making-managerial	300	Kolkata	ICT	Sukanta Kumar Naskar	06/11/2023	10/11/2023	1	Faculty members and technicians. DTE official from all Higher Educational Institutes	

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178.	CU102C	MATLAB & Simulink	300	Guw	Contact	Soumitra Kumar Mandal	13/11/2023	17/11/2023	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges in EE, ECE,EEEand EIE	After completion the programme, the participants will be able to • Discuss fundamentals of MATLAB • Implement MATLAB Applications in Electrical Circuit, Control and Power System • Explain the different aspect of MATLAB & Simulink • Develop simple model using Simulink • Use MATLAB in analysis, design and simulation of Power Electronics
179.	CU103F	Air, Water Pollution and Health	Free	BBSR	Contact	Sailendra Nath Mandal	13/11/2023	17/11/2023	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 and impact on human health, • skill of handling conventional and modern sophisticated equipment, preparation of laboratory instruction sheets, interpreting experimental results, providing laboratory instruction such as to develop in enquiring attitude among students, preparing related test reports, • attitude of hands-on-working in the laboratory/field. (Plant Visit)
180.	CU104C	AutoCAD for Engineers	300	Kolkata	Contact	Mithu Dey	13/11/2023	17/11/2023	1	Faculty of Civil , mechanical, electrical	After completion of the programme, the participants will be able to • use different commands of the Software • Draw the 2D and 3D • Demonstrate the use of AutoCAD in Engg.
181.	PS63B	Academic Leadership	700	Kolkata	ICT	Urmila Kar	13/11/2023	17/11/2023	1	Faculty members from all Higher Educational Institutes	After completion of the programme, the participants will be able to • Identify the role of a teacher-leader • Identify the key competencies needed for an academic leader. • Assess quality of academic leadership for improvement • Develop personal action plan

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182.	CU105B	Introduction to Computational Intelligence	700	Kolkata	ICT	Indrajit Saha	20/11/2023	24/11/2023	1	Faculty of CSE, IT, BCA, MCA ECE, EE, ME, CIVIL Depts.	After completion of the programme, the participants will be able to • describe the fundamentals of Computational Intelligence (CI) • apply CI for complex computational problem • explain computational intelligence in classroom
183.	PS64C	Choice Based Credit System & its Implementation	300	BBSR	Contact	Chandan Chakraborty	20/11/2023	24/11/2023	1	All Teachers from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion the programme, the participants will be able to • Explain the importance and structure of Choice Based Credit System (CBCS) in Technical Education. • Explore the meaning of Core, Discipline Specific Elective, Skill and Ability Enhancement Core Courses. • Develop an understanding of evaluation methods including rubrics
184.	SPL35C	Use of Finite State Machine (FSM) and Petri Net (PN) in SE	180	Kolkata	Hybrid	Ranjan Dasgupta	20/11/23	22/11/23	3 Days	Teachers of CSE/IT/MCA with interest in SE	Participants will get exposure in • FSM & PN • Design State Diagram using FSM and its benefits Use of PN in complex systems
185.	CU106C	Modelling of Physical Systems	300	Guw	Contact	Nirmal Kumar Mandal	20/11/2023	24/11/2023	1	All Disciplines	After completion of the programme, the participants will be able to • Model a system. • Analyse the physical system
186.	MGT06C	Essentailas of HRM	300	Kolkata	ICT	Sukanta Kumar Naskar	20/11/2023	24/11/2023	1	Teachers and support staff	After completion of the programme, the participants will be able to • Identify the components of HRM • Practice the components of HRM in their respective organization

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187.	PS65C	Essentials of Outcome based education	300	Kolkata	ICT	Habiba Hussain	20/11/2023	24/11/2023	1	Teachers from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion of the programme, the participants will be able to • Identify essential components in OBE • Explain the need for pradigm shift • Implement the principles of OBE • Compare the strategies in OBA
188.	PS66C	NBA, NIRF and NAAC accreieditaion aspects	300	Kolkata	ICT	Rayapati Subbarao	20/11/2023	24/11/2023	1	Faculty of all disciplines	After completion of 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 for NBA. • Practice Self Study Report (SSR) for NAAC. • Identify the use of ranking framework.
189.	SPL30C	Refresher Course on Sensors used for IoT Applications	300	Kolkata	Hybrid	Sagarika Pal	20/11/2023	24/11/2023	1	Faculty of All Disciplines	• Differentiate sensors, transducers and actuators • Describe principle of operation of different sensors • Explain SMART sensing Technology • Identify various sensors used for IoT application • Explain need of IoT for sensor data communication • Apply various IoT techniques for sensor data transmission
190.	CU107C	Engineering Capstone Project	300	Guw	Contact	Prasanta Sarkar	27/11/2023	01/12/2023	1	Faculty and Technical Staff of all Disciplines	After completion the programme, the participants will be able to • Form Capstone Project Team • Identify Capstone Project topic • Prepare Capstone Project proposal • Develop Capstone Project Assess Capstone Project

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191.	CU108C	Bio-Medical Instrumentation	300	BBSR	Contact	Subrata Chattopadhyay	27/11/2023	01/12/2023	1	Faculty of all disciplines	After completion of the programme, the participants will be able to • Discuss Cells, Digestive System, Excretory System, Endocrinology • describe Origins of electro-physiological signal and their characteristics • design practical clinical sensors and transducers • Explain the operation of X-ray, Fluoroscopy and Radiography, Pacemaker, Magnetic Resonance Imaging etc. • Explain Electric shock hazards and safety devices
192.	PS67B	NEP 2020: Plan for Implementation	700	Kolkata	ICT	Urmila Kar	27/11/2023	01/12/2023	1	Teachers from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion of the programme, the participants will be able to • Explain the New vision and major reforms identified in NEP 2020 • Identify the issues and challenges in implementation of NEP 2020 for HEIs • Prepare Institutional Development Plan (IDP)
193.	CU109A	Fundamental and Applications of Nanomaterials	3000	Kolkata	Contact	Subrata Mondal	04/12/2023	15/12/2023	2	Faculty of all disciplines	After completion the programme, the participants will be able to • explore the concept of nanotechnology; • describe the fundamental of nanoscale materials' properties; • identify various carbon based nanomaterials; • describe applications of nanomaterials in various fields; • explain the nano toxicology and nano safety etc.

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194.	CU110C	MATLAB & Fuzzy Logic Control	300	BBSR	Contact	Soumitra Kumar Mandal	04/12/2023	08/12/2023	1	Faculty and Lab Technician of Engineering and Polytechnic Colleges in EE, ECE ,EEE and EIE	After completion the programme, the participants will be able to • Discuss fundamentals of MATLAB • Implement MATLAB Applications in Control System • Explain the different aspect of Fuzzy Logic Control • Develop simple model using Fuzzy tool box
195.	PS58F	Professional Values and Ethics	Free	Kolkata	ICT	Mithu Dey	04/12/2023	08/12/2023	1	All Faculty and Staff	After completion the programme, the participants will be able to • Discuss the moral values that ought to guide the engineering profession • create an awareness on professional Ethics and Human Values. • Resolve the moral issues in the profession develop a set of beliefs, attitudes, and habits that professional should display regarding morality
196.	CU111B	Refresher Course on Sensors and Instrumentation	700	Kolkata	Hybrid	Sagarika Pal	04/12/2023	08/12/2023	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion of the programme, the participants will be able to • Differentiate sensors, transducers and actuators • Classify different sensors, transducers and actuators in industry • Apply various process control techniques • Explain the concept of Smart sensors in modern instrumentation

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197.	CU112C	Environmental Pollution and Health	300	In-house	Contact	Sailendra Nath Mandal	04/12/2023	08/12/2023	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 handling conventional and modern sophisticated equipment, preparation of laboratory instruction sheets, interpreting experimental results, providing laboratory instruction such as to develop in enquiring attitude among students, preparing related test reports, • attitude of hands-on-working in the laboratory/field. (Plant Visit)
198.	CU113C	Application of Green Design and Manufacturing in Mechanical Engineering	300	Kolkata	Contact	Dipankar Bose & Arpan Kumar Mondal	04/12/2023	08/12/2023	1	Faculty members of Technical Institutions with specialization ME,AE and Production Engineering	After completion of the programme, the participants will be able to • Explain the concept and goals of green manufacturing • Illustrate life cycle approaches to product design • integrate green design and manufacturing concepts of Mechanical Engineering
199.	SPL27C	Machine Learning and its Applications	300	Kolkata	ICT	Indrajit Saha	04/12/2023	08/12/2023	1	Faculty from all Discipline	After completion the programme, the participants will be able to • describe the fundamentals of Machine Learning (ML) • apply ML for clustering, classification and regression explain machine learning in classroom

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200.	PS68B	Academic Writing and Tools	1400	Kolkata	ICT	Rayapati Subbarao, Kinsuk Giri & Samir Roy	04/12/2023	15/12/2023	2	All Discipline	After completion the programme, the participants will be able to • Identify the different ways of presenting an academic report. • Detail the steps involved in writing a research article. • Obtain the skills of writing a thesis or research report. • Illustrate the ways of using different tools for writing a thesis. • Apply different tools for academic purposes.
201.	PS70C	Induction Training	300	Guw	Contact	Sheela Yadav Rai	04/12/2023	08/12/2023	1	Faculty from all Discipline	After completion of the programme, the participants will be able to • Formulate the lesson plan • Prepare the instructional objectives • Identify the principles of evaluation • Distinguish between types of evaluation
202.	CU114B	Additive and Substractive Manufacturing	700	Kolkata	Contact	Arpan Kumar Mondal	11/12/2023	15/12/2023	1	Technical teachers and Staff from Mechanical Engineering or allied disciplines	After completion of the programme, the participants will be able to • Classify the various additive and substractive manufacturing processes • Explain the working principle of various additve and substractive manufacturing processes • Perform independently various additive and substractive manufacturing processes
203.	CU115C	CAD/CAM	300	Kolkata	Contact	Nirmal Kumar Mandal	11/12/2023	15/12/2023	1	Mechanical, Production, &Industrial	After completion of the programme, the participants will be able to • Define automation. • Classify automation • Operate automated system.

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204.	CU116C	Analysis and Design of structures using latest version of a Structural Engineering Software	300	Kolkata	Hybrid	Santanu Bhanja	11/12/2023	15/12/2023	1	Faculty of Civil, Architecture & allied disciplines	After completion of the programme, the participants will be able to • Identify the role of software in structural analysis and design • Discuss the basic features of a universally accepted software-STAAD.Pro Connect- latest version along with RCDC • Apply IS Codal provisions in analysis, design and detailing - IS 456, 1893, 875, 13920 etc. • Analyse, design and detail real-life multi- storeyed buildings, civil engineering structures • Analyse and design foundations
205.	MGT07F	Essentials of Institutionl Managemnt	Free	Kolkata	e-STTP	Sukanta Kumar Naskar	11/12/2023	15/12/2023	1	Teachers and support staff	After completion of 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
206.	PS72C	Preparing Question Bank for effective assessment of learning	300	Guw	Contact	Urmila Kar	11/12/2023	15/12/2023	1	Faculty members and technicians from all Higher Educational Institutes	After completion of the programme, the participants will be able to • Relate Bloom's taxonomy with learning assessment • Identify Tools and techniques for assessment • Explain characteristics of good achievement test • Design an effective achievement test • Generate test items for preparing question bank
207.	PS73C	Digital Tools for Teachers and Staffs	300	Kolkata	Hybrid	Chandan Chakraborty	11/12/2023	15/12/2023	1	Faculty & Staff	After completion of the programme, the participants will be able to • Develop understanding of various ICT tools for classroom teaching. • Explore Learning Management System • Plan classroom and related online activities

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208.	CU117C	Advanced Process Control using PLC, DCS and SCADA	300	BBSR	Contact	Subrata Chattopadhyay	11/12/2023	15/12/2023	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion of the programme, the participants will be able to •Explain closed loop control system •Illustrate pressure, Temperature, Flow & Level Measurement system •Discuss hazardous area classification •Utilize the electrical instruments in hazardous area in process plant •Design the conventional complex control system like ratio, cascade, feed forward, selective, override etc. •Apply the control system in distillation column in industry •Explain fundamental of PLC, DCS and SCADA
209.	CU118C	CEA Regulations 2010 and Code of Practices	300	Kolkata	Hybrid	Prasanta Sarkar	18/12/2023	22/12/2023	1	Faculty of all Disciplines	After completion the programme, the participants will be able to • Discuss Indian Electricity Act and National Electric Code • Explain fundamental principles for electrical installation • Design electrical installation • Enforce safety in electrical work
210.	CU120F	Introduction to Coding Theory	Free	Guw	Contact	Rajeev Chatterjee	18/12/2023	22/12/2023	1	Faculty of all Disciplines	After participating in this program, the participants will be able to: •Explain information, quality of Information, and Information entropy, •Demonstrate the working principles and design of AES, DES, •Demonstrate various encoding techniques like Arithmetic Encoding, Huffman Encoding, Hamming Code, Gray code, JPEG Encoding Standard, etc., and •Demonstrate the applications of coding techniques in the area of Networking and Communication

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211.	CU121C	Testing of Bituminus Material	300	Kolkata	Contact	Mithu Dey	18/12/2023	22/12/2023	1	Faculty of Civil and allied branch	After completion of the programme, the participants will be able to • Demonstrate the different test on bitumen • Handle the instrunment. • Explain the significance of test on bituminous material • Write the technical report
212.	PS75A	Fundamentals of Problem-Based Learning.	1500	Kolkata	e-STTP	Indrajit Saha, Sagarika Pal, Kinsuk Giri & Arpan Kumar Mondal	18/12/2023	22/12/2023	1	Faculty of all disciplines	After completion the programme, the participants will be able to • Explain the basic problem-solving strategies in classroom • Identify specific problems covering a particular area of learning • Solve problems in various branches of Engineering through PBL • Analyse the benefits associated with PBL compared to conventional learning
213.	CU122C	Commentary for Code on Ductility Design and Detailing of RC structures subjected to Seismic Forces - IS 13920 2016	300	Kolkata	ICT	Santanu Bhanja	26/12/2023	30/12/2022	1	Faculty of Civil, Architecture & allied disciplines	After completion of the programme, the participants will be able to • Explain the fundamental principles of RC design as per Indian Standards - the fundamentals of Limit State Method and need for ductility design • Interpret some of the important clauses of the code in their true letter and spirit • Implement the codal clauses in a better manner for design and detailing of Earthquake Resistant Structures • Identify the major design and detailing considerations • Apply a standard software for designing structures

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214.	SPL20C	HRD through Training and Development	300	Kolkata	ICT	Sukanta Kumar Naskar	01/01/2024	05/01/2024	1	Faculty members and technicians. DTE official from all Higher Educational Institutes	
215.	CU123A	Additive Manufacturing: Theory and Recent Advances	1500	Kolkata	Contact	Arpan Kumar Mondal	08/01/2024	12/01/2024	1	Technical teachers and Stafffrom Mechanical Engineering or allied disciplines	After completion the programme, the participants will be able to • Classify the various additive manufacturing processes • Explain the working principle of various additive manufacturing processes • Discuss recent advances in Additive Manufacturing
216.	CU124C	Mathematical Foundation of Computer Science	300	Kolkata	Contact	Kinsuk Giri & Samir Roy	08/01/2024	12/01/2024	1	Any Science and Engineering Stream	After completion of the programme, the participants will be 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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217.	CU119F	Commentary IS:456-2000 with Expected Modifications In the Forthcoming Revision	Free	Kolkata	ICT	Santanu Bhanja	08/01/2024	12/01/2024	1	Faculty of Civil, Architecture & allied disciplines	After completion the programme, the participants will be able to • Identify the steps to be taken for concrete production, quality control and testing • Interpret some of the important clauses of the code in their true letter and spirit • Implement the codal clauses in a better manner for design and construction of Civil Engineering Structures • Discuss the philosophy and principles of Limit State Method in a comprehensive manner • Conceive that this code cannot be considered as a one package for the design of concrete structures and has to be mandatorily read in conjunction with other codes • Identify the major design and detailing considerations • Discuss amendments of this standard • Discuss limitations and probable modifications
218.	PS77A	Creativity and Critical Thinking	1500	Kolkata	Hybrid	Sagarika Pal	08/01/2024	12/01/2024	1	Faculty of all disciplines	After completion the programme, the participants will be able to • Explain the concept of creativity and critical thinking • Suggest strategies to promote creativity in teaching-learning process • Apply the techniques of creative problem solving • Identify the stages of design thinking approach to new product development

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219.	PS78C	Designing Direct and Indirect Assessment Tools under OBE	300	BBSR	Contact	Urmila Kar	08/01/2024	12/01/2024	1	Faculty members and technicians from all Higher Educational Institutes	After completion of the programme, the participants will be able to • Identify tools and techniques for assessment and evaluation of learning outcomes under OBE • Design direct tools for assessment of learning in ❖ Knowledge domain ❖ Psychomotor domain ❖ Affective domain • Design indirect tools for learning assessment
220.	CU125B	Fundamentals of Image Editing and 2D Animation	700	Kolkata	Contact	Indrajit Saha	15/01/2024	19/01/2024	1	Teachers from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion of the programme, the participants will be able to • Edit images • Create animation • Demonstrate use of various multimedia related software • Prepare a computer based training material
221.	CU126B	Artificial Intelligence & its Applications	700	Kolkata	Hybrid	Chandan Chakraborty	15/01/2024	19/01/2024	1	Faculty of CSE, IT, MCA, Biomedical disciplines	After completion of the programme, the participants will be able to • Discuss overview of AI technologies. • Explain Machine Learning, Deep Learning & Reinforcement Learning • Explain Logic and Automated Reasoning Systems • Explore popular AI platforms, such as AWS, Google Cloud AI, Microsoft Azure Learning Studio, and IBM Watson

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222.	CU127F	Bio-Medical Instrumentation	Free	Guw	Contact	SubrataChattopadhyay	15/01/2024	19/01/2024	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion of the programme, the participants will be able to • Discuss Cells, Digestive System, Excretory System, Endocrinology • describe Origins of electro-physiological signal and their characteristics • design practical clinical sensors and transducers • Explain the operation of X-ray, Fluoroscopy and Radiography, Pacemaker, Magnetic Resonance Imaging etc. • Explain Electric shock hazards and safety devices
223.	MGT09B	Institutonal Management & Administrative procedures	700	In-house	Contact	Sukanta Kumar Naskar	15/01/2024	19/01/2024	1	Teachers and support staff	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
224.	PS80F	Advanced Pedagogy	Free	Kolkata	ICT	Arpan Kumar Mondal & Sukanta Kumar Naskar	15/01/2024	26/01/2024	2	Technical teachers from all disciplines	After completion of the programme, the participants will be able to • Explain the need of Advanced Pedagogy • Explain 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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225.	CU128C	Applied Optimization	300	BBSR	Contact	Nirmal Kumar Mandal	16/01/2024	20/01/2024	1	All Disciplines	After completion of the programme, the participants will be able to • Explain linear and nonlinear regression • Optimise a function using GA, PSO • Use MATLAB
226.	CU129B	Refreshers course on Finite Element Method	700	Kolkata	ICT	Mithu Dey	22/01/2024	26/01/2024	1	Faculty of Civil and allied branch	After completion of the programme, the participants will be able to • Explain the use of FEM • Solve the problem using FEM • Discuss different features of FEM software
227.	SPL21C	Effective pedagogical practices	300	Kolkata	ICT	Habiba Hussain	22/01/2024	26/01/2024	1	Faculty members and Technicians from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	
228.	CU130A	Capstone Project	1500	Kolkata	ICT	Urmila Kar	29/01/2024	02/02/2024	1	Faculty members and technicians from all Higher Educational Institutes	After completion the programme, the participants will be able to • Explain the role of capstone project in technical program • Justify the importance of capstone team formation and communication • Explain project selection through SWOC analysis • Develop format for proposal submission • Explain the steps involved in design validation and implementation • Decide strategies to capstone project evaluation

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229.	PS81B	ICT Enabled Learning in 21st Century	700	Kolkata	Contact	Rajeev Chatterjee, Samir Roy & Ranjan Dasgupta	29/01/2024	02/02/2024	1	Faculty of all disciplines	After completion the programme, the participants will be able to • Explain the changing scenario of education in 21st century • Explain the concept of e-learning / TEL • Exhibit and demonstrate the process of e-content creation for MOOCs based e-content • Illustrate ethics, plagiarism, etc. in the context of 21st century learning • Explain lifelong learning • Explain the development of virtual Laboratory
230.	PS82C	NBA Accreditation and SAR Preparation for Polytecnics	300	Guw	Contact	Arpan Kumar Mondal & Ranjan Dasgupta	29/01/2024	02/02/2024	1	Technical teachers from all disciplines	After completion of the programme, the participants will be able to • Identify the Impact of NBA Accreditation • Explain Washington accord • Prepare Vision, Mission, PEO and PSO • Prepare CO-PO mapping • Prepare pre-qualifier and SAR. • Establish correlations among criteria 1 to 10
231.	PS74C	Research Methodology	600	Kolkata	ICT	Habiba Hussain	29/01/2024	09/02/2024	2	Teachers from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs & research scholars	After completion of the programme, the participants will be able to • Identify research problem • Expalin the steps in conducting research • Review literature • Characterise methods for research in technical education • Relate different statistical techniques Compare research proposal & research report

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232.	PS83C	Quality Improvement of the program and institute	300	Kolkata	ICT	Rayapati Subbarao	29/01/2024	02/02/2024	1	Faculty of all disciplines	After completion of the programme, the participants will be able to • Identify appropriate teahcing learning processes. • Prepare Vision, Mission, Program Educational Objectives. • Prepare Outcomes and Program Outcomes • Implement different qulaity aspects.
233.	CU131A	Estimating and Costing of Non-conventional Energies	1500	Kolkata	Contact	Sheela Yadav Rai	05/02/2024	09/02/2024	1	All Discipline	After completion the programme, the participants will be able to • Describe various type of Non-conventional Energies Sources • Explain the scope of Solar energy, Solar Thermal Conversion, Solar Collector, Wind Energy • Estimate costing of various energies
234.	CU132B	LabVIEW Architecture, Programming and its applications in Measurement & Control	700	Kolkata	Hybrid	Subrata Chattopadhyay	05/02/2024	09/02/2024	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion of the programme, the participants will be able to • Discuss the features, dataflow programming, and common LabVIEW architectures. • Develop test and measurement, data acquisition, instrument control, data logging, and measurement analysis applications using LabVIEW • Develop interfacing of input output devices with LabVIEW • Implement the LabVIEW in Measurement & Control System and its trouble shooting • Create applications using a state machine. • Design pattern to acquire, process, display, and store real-world data

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235.	CU133C	Analysis and Design of structures using a powerful Structural Engineering Software	300	BBSR	Contact	Santanu Bhanja	05/02/2024	09/02/2024	1	Faculty of Civil, Architecture & allied disciplines	After attending the programme, the participants will be able to • Identify the role of software in structural analysis and design • Explain the basic features of a universally accepted software-STAAD.Pro Connect- latest version along with RCDC • Apply IS Codal provisions in analysis, design and detailing - IS 456, 1893, 875, 13920 etc. • Analyse, design and detail real-life multi- storeyed buildings, civil engineering structures • Analyse and design foundations
236.	CU134F	Cloud Computing and HPC	Free	Kolkata	Hybrid	Kinsuk Giri & Ranjan Dasgupta	05/02/2024	09/02/2024	1	Faculty with any Science and Engineering Stream	After completion of the programme, the participants will be able to • Identify different hardware components of modern computer • Explain the limitation of modern computer in context of HPC • Discuss the features of HPC and Cloud Computing
237.	PS12A	Advanced Pedagogy	3000	Kolkata	ICT	Sukanta Kumar Naskar	05/02/2024	16/02/2024	2	Faculty of all disciplines	After completion the programme, the participants will be able to • Appreciate the taxonomy of T-L • identify evaluation,assessment, and test • Evaluate skills • Manage laboratory • Use modern tools in T-L Apply classroom management methods

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238.	CU135C	Additive Manufacturing of Polymers for Biomedical Applications	300	Kolkata	Contact	Subrata Mondal	12/02/2024	16/02/2024	1	Faculty of Chemical Engg. Mechanical Engg., Science, Textiles Engg., Materials Sci. & Engg., Polymer Engg. and allied disciplines	After completion the programme, the participants will be able to • explore the state-of-the-art additive manufacturing research; • describe different types of additive manufacturing processes; • identify property requirements of materials for the biomedical applications; • describe advantages of polymer for the biomedical applications; • fabricate various biomedical implants by using 3-D printing process etc.
239.	PS84C	NEP-2020 & its Implementation	300	In-house	Contact	Chandan Chakraborty	12/02/2024	16/02/2024	1	Faculty from all disciplines	After completion of the programme, the participants will be able to develop understanding on • Multidisciplinary & Holistic Education • Equity & Inclusion • Motivated Energized & Capable Faculty • Technology use & Integration • Global Outreach of Higher Education • Promotion of Indian Knowledge Systems etc.
240.	PS85C	NBA Accreditation and SAR preparation	300	Guw	Contact	Rayapati Subbarao	12/02/2024	16/02/2024	1	Faculty of all disciplines	After completion of 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 • Prepare SAR. • Establish correlations among Criteria i to x.

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241.	PS86C	Designing question paper	300	BBSR	Contact	Habiba Hussain	12/02/2023	16/02/2024	1	Teachers from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion of the programme, the participants will be able to • Characterise types of assessment • Develop table of specifications • Differentiate the evaluation tools • Prepare rubrics
242.	PS87B	Best Pedagogical practices for Effective Teaching-learning	420	Kolkata	Contact	Urmila Kar	07/02/2024	09/02/2024	3-days	Faculty members and technicians from all Higher Educational Institutes	After completion of the programme, the participants will be able to • Identify existing pedagogical practices in Higher Education. • Explore pedagogy for creating thinking classroom • Explain pedagogy for creating learning space
243.	CU136C	Vibrations in Engineering Systems	300	Kolkata	Contact	Nirmal Kumar Mandal&Santanu Bhanja	19/02/2024	23/02/2024	1	Faculty from all disciplines	After completion of the programme, the participants will be able to • Model vibrations of a physical systems • Model acoustics of a physical system.
244.	CU137F	Industrial Instrumentation	Free	Kolkata	Hybrid	Sagarika Pal	19/02/2024	23/02/2024	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion of the programme, the participants will be able to • Explain Conventional control techniques for industrial automation • Describe complex controls such as ratio, cascade, feed forward etc. • Develop programme on PLC and DCS for process automation • Explain SCADA systems for various process control systems

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245.	MGT10C	Managemnt for offce staff	300	Guw	Contact	Sukanta Kumar Naskar	19/02/2024	23/02/2024	1	Office staff and officers	After completion of the programme, the participants will be able to • Identify the components of management useful for day to day work • Correlate and apply the management principles in day to day activities • Identify management tools for solving problems related to day to day activities • Apply management tools
246.	SPL36C	Critical Discussions on SDLC	180	Kolkata	Hybrid	Ranjan Dasgupta	19/02/24	21/02/24	3 Days	Teachers of CSE/IT/MCA with interest in SE	Participants will get exposure in • Various available software development models • Pros and Cons of the models Compare and Contrast different SDLC
247.	PS88C	Guiding Innovative student project work	300	BBSR	Contact	Dipankar Bose	19/02/2024	23/02/2024	1	Faculty memebers of all disciplines from different technical institutions	After completion of the programme, the participants will be able to • Identify characteristics of innovative projects • distinguish between creativity and innovation • Explain guiding principles of student projects
248.	SPL22C	Holistic and Multidisciplinary Education	300	Kolkata	ICT	Urmila Kar	19/02/2024	23/02/2024	1	Faculty members and technicians from all Higher Educational Institutes	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 Explore the strategies in implementing Holistic and Multidisciplinary education in HEIs.

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Sl. No.	Prog. Code	Programme Title	Course Fees (Rs.)	Venue	Prog. Mode	Programme Co-ordinator(s)	Date		Week	Target Participant / Group	Programme Objectives
							From	To			
249.	PS89C	NBA Accreditation and SAR Preparation for Polytecnics and Engineering Colleges	300	BBSR	Contact	Arpan Kumar Mondal & Ranjan Dasgupta	26/02/2024	01/03/2024	1	Technical teachers from all disciplines	After completion of the programme, the participants will be able to • Identify the Impact of NBA Accreditation • Prepare Vision, Mission, PEO and PSO • Prepare CO-PO mapping • Prepare pre-qualifier and SAR. • Establish correlations among Criteria 1 to 10 • Explain Washington accord • Explain essence of CEP and LLL
250.	PS31C	Induction Training	300	Kolkata	ICT	Subrata Mondal	26/02/2024	01/03/2024	1	Faculty of all disciplines	After completion of the programme, the 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.
251.	PS71B	Effective Teaching and Research	700	Kolkata	ICT	Indrajit Saha	26/02/2024	01/03/2024	1	Faculty of all disciplines	After completion the programme, the participants will be able to • Demonstrate classroom teaching skills in different modes • Use digital tools in classroom teaching Conduct research for academic development

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

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							From	To			
252.	CU139C	Engineering Thermodynamics and its Applications	300	Kolkata	Contact	Rayapati Subbarao	04/03/2024	08/03/2024	1	Faculty of all disciplines	After completion of the programme, the participants will be able to • Paraphrase the basics of thermodynamics. • Apply laws of thermodynamics in various problems. • Interpret the working principle and features of steam engines, turbines and condensers. • Explain the basics of i.c. engines and analyze the performance of gas turbines. • Review the processes of a steam power plant.
253.	CU140B	Analysis and Design of Structures using Sap 2000	700	BBSR	Contact	Mithu Dey	04/03/2024	08/03/2024	1	Faculty of Civil and allied branch	After completion of the programme, the participants will be able to • Identify different methods of analysis using software • use of relevant codes for design and detailing of RC structures • Discuss different features of SAP 2000
254.	CU141B	Sensors and Instrumentation for today's Automation	700	Kolkata	Hybrid	Subrata Chattopadhyay	04/03/2024	08/03/2024	1	Faculty of Electrical, Electronics and ECE, Mechanical, Electronics & Instrumentation disciplines	After completing the course the participants will be able to • Differentiate sensors, transducers and actuators • Classify different sensors, transducers and actuators in industry • Apply various process control techniques • Explain the concept of Smart sensors in modern instrumentation
255.	PS90C	Induction Training	300	Kolkata	Hybrid	Indrajit Saha, Sagarika Pal, Kinsuk Giri & Arpan Kumar Mondal	04/03/2024	08/03/2024	1	Faculty of all disciplines	After completion the programme, the participants will be able to • Prepare the instructional objectives • Formulate the lesson plan • Differentiate between Assessment and Evaluation • Design the table of Specification • Prepare the question paper • Evaluate skill in the laboratory

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							From	To			
256.	PS91B	Research Methodology & IPR	700	Guw	Contact	Chandan Chakraborty	04/03/2024	08/03/2024	1	Faculty of Engineering & Science, Allied disciplines	After completion the programme, the participants will be able to • Develop understanding of the research design, interdisciplinary research in the line of NEP 2020. • Explore about systematic literature review with PRISMA • Demonstrate in-depth knowledge in statistical methods and models • Discuss overview of patents, copyrights, trademarks etc • Explain patent filing process and related issues.
257.	SPL43C	Research and Publication Ethics	300	Kolkata	ICT	Sukanta Kumar Naskar and Niladri Pratap Maity	04/03/2024	08/03/2024	1	Faculty from all Discipline	• Define research • Identify different aspects of research • Appreciate the four elements of writing a research thesis • Follow Research Integrity and Publication Ethics • Follow several ethical issues • Identify Error and Fraud in research • Prepare Database and research metrics • Follow how to publish research outcomes
258.	SPL44C	Cyber Safety for ICT User	300	Kolkata	Hybrid	Ajoy Kumar Khan	04/03/2024	08/03/2024	1	Faculty from all Discipline	• Define ICT • Identify different Security Aspects • Basic Network Security • Concept of Privacy and Secrecy • Different types of Cyber Crimes • Prevention and Protection from Cyber Crime • Basic idea about Digital Forensic
259.	PS92B	Psychology and Mental health	420	Kolkata	ICT	Sukanta Kumar Naskar	06/03/2024	08/03/2024	3-days	Teachers and research scholars	After completion of the programme, the participants will be able to • Identify stress and factors of stresses • Explain how to cope up with stress • Explain emotional intelligence and resilience • Discuss overview of mindfulness

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							From	To			
260.	SPL37C	Software Risk Management and SDLC	180	Kolkata	Hybrid	Ranjan Dasgupta	11/03/24	13/03/24	3 Days	Teachers of CSE/IT/MCA with interest in SE	Participants will get exposure in • Various available software development models • Riks associated with each models Mechanism of mitigation
261.	CU143B	Renewable Energy Sources and Emerging Technologies	700	Kolkata	e-STTP	Sheela Yadav Rai	11/03/2024	15/03/2024	1	Faculty from all Discipline	After completion the programme, the participants will be able to • Identify Energy Sources and their utilization • Explain Environmental aspects of electric energies generation • Explain the scope of Solar Thermal Conversion and Solar Photovoltaic system • Describe about wind energy, Geothermal energy and Biomass • Apply Non-conventional energies through various agencies viz.WBREDA
262.	CU144C	Finite Element Analysis	300	Kolkata	ICT	Nirmal Kumar Mandal	11/03/2024	15/03/2024	1	Faculty from all relevant Disciplines	After completion of the programme, the participants will be able to • Explain a mechanical system. • Use software packages to analyse mechanical system.
263.	CU145C	Commentary for Code on Ductility Design and Detailing of RC structures subjected to Seismic Forces - IS 13920 2016	300	BBSR	Contact	Santanu Bhanja	11/03/2024	15/03/2024	1	Faculty of Civil, Architecture & allied disciplines	After completion of the programme, the participants will be able to • Explain the fundamental principles of RC design as per Indian Standards - the fundamentals of Limit State Method and need for ductility design • Interpret some of the important clauses of the code in their true letter and spirit • Implement the codal clauses in a better manner for design and detailing of Earthquake Resistant Structures • Identify the major design and detailing considerations • Apply a standard software for designing structures

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							From	To			
264.	PS93A	Thinking Classroom and Life-long Learning	1500	Kolkata	ICT	Urmila Kar	11/03/2024	15/03/2024	1	Faculty members and technicians from all Higher Educational Institutes	After completion the programme, the participants will be able to • identify features of learning-teaching system in HE • analyse the learning preferences of students • explain the need for Thinking Classroom and Life Long Learning • identify innovative approaches for creating Thinking Classroom • explore the ways to faciliate active learning and life-long learning into HEIs.
265.	PS54C	Induction training	300	Kolkata	ICT	Sukanta Kumar Naskar	11/03/2024	15/03/2024	1	Faculty from all disciplines	After completion of the programme, the 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
266.	PS94C	Designing question paper	300	Guw	Contact	Habiba Hussain	11/03/2024	15/03/2024	1	Teachers from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion of the programme, the participants will be able to • Characterise types of assessment • Develop table of specifications • Differentiate the evaluation tools • Prepare rubrics
267.	CU138F	Fundamentals of Machine Learning	Free	Kolkata	ICT	Indrajit Saha	11/03/2024	15/03/2024	1	Faculty of all disciplines	After completion the programme, the participants will be able to • describe the fundamentals of Machine Learning (ML) • apply ML for clustering, classification and regression • explain machine learning in classroom

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							From	To			
268.	SPL42C	Development of Laboratory Instruction and Manual	300	Kolkata	ICT	Subrata Mondal	11/03/2024	15/03/2024	1	Faculty of all disciplines and laboratory technicians	After completion of the programme, the 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.
269.	PS95C	Assessment and Evaluation	300	Kolkata	e-STTP	Dipankar Bose	11/03/2024	15/03/2024	1	Faculty memebers of all disciplines from different technical institutions	After completion of the programme, the participants will be able to • distinguish between assessment and evaluation • plan assessment by designing suitable questionnaire/tools • explain rubric for assessment and evaluation.
270.	CU146B	Machine Learning with Python	700	Kolkata	ICT	Kinsuk Giri & Chandan Chakrabarty	18/03/2024	22/03/2024	1	Any Science and Engineering Sytream	After completion of the programme, the participants will be able to • Explain the notion of Machine Learning and its impact on future employment • Discuss overview of Python programming • Develop an exposure of supervised and unsupervised ML techniques • Implement ML algorithms using Python through hands-on-practice • Explore for problem solving
271.	MGT08C	Laboratory Management	300	Guw	Contact	Dipankar Bose	18/03/2024	22/03/2024	1	Faculty memebers of all disciplines from different technical institutions	After completion of the programme, the participants will be able to • Identify various management issues of conducting laboratory and workshop classes • Explain effective techniques of management of classroom, machines/equipment and manpower state different safety aspects

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							From	To			
272.	CU142A	Introduction to Bioinformatics	1500	In-House	Contact	Indrajit Saha	18/03/2024	22/03/2024	1	Faculty of alldisciplines CSE, IT, BCA, MCA ECE, EE, ME, CIVIL	After completion of the program, the participants will be able to: • describe the basic principles and concepts of biology, computer science and mathematics • apply Machine Learning in Bioinformatics explain Bioinformatics in classroom
273.	MGT11C	Institutionl Management	300	BBSR	Contact	Sukanta Kumar Naskar	18/03/2024	22/03/2024	1	Teachers and managerial staff	After completion of 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
274.	SPL40B	Online Pedagogy	700	Kolkata	ICT	Habiba Hussain	18/03/2024	22/03/2024	1	Teachers from Polytechnics, Engg. Colleges, Degree Colleges, Universities and other HEIs	After completion of the programme, the participants will be able to • Explain the need for online pedagogy • Plan online instruction Incorporate different principles for effective online delivery
275.	PS79C	Community Development through Technical Institutes	300	Kolkata	ICT	Sheela Yadav Rai	18/03/2024	22/03/2024	1	Faculty from all Discipline	After completion of the programme, the participants will be able to • Identify various Community Development Schemes • Explain Feasibilty Report • Prepare Reports Establish linkages with organisations
276.	CU147B	Application of open source software in civil engineering	700	Kolkata	ICT	Mithu Dey	25/03/2024	29/03/2024	1	Faculty of Civil and allied branch	After completion the programme, the participants will be able to • Identify different Open source softaware • Discuss the feature of theses softawre • Use open source software in civil engineering

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277.	CU148C	Introduction to LaTeX in Word Processing	300	Guw	Contact	Kinsuk Giri	25/03/2024	29/03/2024	1	All	After completion the programme, the participants will be able to • Identify Word Processing Tools •describe the fundamentals LaTeX programming •apply LaTeX for preparing scientific and non-scientific documents
278.	SPL38C	Software Quality Issues (Application Specific)	180	Kolkata	Hybrid	Ranjan Dasgupta	25/03/24	27/03/24	3 Days	Teachers of CSE/IT/MCA with interest in SE	Participants will get exposure in • Different quality aspects of application specific software • Techniquies used to embed the quality Limitations in such applications
279.	CU149B	Advanced Process Control using PLC, DCS and SCADA	700	Kolkata	Hybrid	Subrata Chattopadhyay	25/03/2024	29/03/2024	1	Faculty of Electrical, Electronics and Communication, Mechanical, Electronics & Instrumentation disciplines	After completion of the programme, the participants will be able to • Explain closed loop control system • Illustrate pressure, Temperature, Flow & Level Measurement system • Discuss hazardous area classification • Utilize the electrical instruments in hazardous area in process plant • Design the conventional complex control system like ratio, cascade, feed forward, selective, override etc. • Apply the control system in distillation column in industry • Explain fundamental of PLC, DCS and SCADA
280.	CU150C	Vibration in Engineering Systems	300	Kolkata	Hybrid	Santanu Bhanja	25/03/2024	29/03/2024	1	Faculty of Engineering with preference to Mechanical, Civil, Architecture & allied disciplines	After completion of the programme, the participants will be able to • Identify different types of vibrations • Explain the importance of vibration analysis in Mechanical and Civil Engineering • Discuss the application of vibration analysis in design of machines • Identify the major design and detailing considerations of structures subjected to vibrations

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GENERAL INSTRUCTIONS TO THE PARTICIPANTS

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

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(For Paid Course)

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

- **Course Fee Details:**

Category of FDP	Category - A	Category - B	Category - C	FREE
Fees per participant per week	Rs. 1500/-	Rs. 700/-	Rs. 300/-	No fees

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

Processing TA:

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

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

Air tickets shall be purchased positively only from the three Authorized Travel Agents (ATAs), namely:
(a) M/s. Balmer Lawrie & Company Limited (BLCL),
(b) M/s. Ashok Travels & Tours (ATT),
(c) Indian Railways Catering and Tourism Corporation Ltd. (IRCTC)

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

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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.