GOVERNMENT OF TELANGANA
DEPARTMENT OF TECHNICAL EDUCATION

OFFICE OF THE
COMMISSIONER OF TECHNICAL EDUCATION
TELANGANA :: HYDERABAD

Sub : Technical Education– T & P Section- List of ICT Mode online mode STTP Faculty Development Program from 17.05.2021 to 02.07.2021 conducted by NITTTR, Kolkata - Communication- Reg.

Ref : Program Calendar from May to June-2021 Online Training Programs offered by NITTTR, Kolkata.

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With reference to the above cited, the Principals of all Government Polytechnics under the control of this Department are hereby informed that, the National Institution of Technical Teachers' Training & Research (NITTTR), Kolkata is organizing Online Training Programs scheduled from 17.05.2021 to 02.07.2021.

In this connection, the Principals of all Government Polytechnics are hereby informed to instruct the faculty who are in short of training programmes may register online in NITTTR, Kolkata application form Link **http://www.nitttrkol.ac.in/download/Application%20Form.pdf** and submit the details of the registered faculty in the following format to adtrg.ts@gmail.com. The program completion certificate may be sent to tpo.telngana@gmail.com after completion of the online course.

S. No.	Name & Designation	Name of the Polytechnic	Program Code& Title	Duration of the programme	Mobile Number	Email ID

The receipt of the memo shall be acknowledged.

(This has the approval of the CTE, Telangana)

Signature valid
Digitally signed by A SWAMY
Date: 2021.05.04 12:52:12 IST
Reason: Approved
For COMMISSIONER

To,
The Principals of all Government Polytechnics under the control
Of this Department of Technical Education, Telangana State.

National Institute of Technical Teachers' Training & Research, Kolkata

List of ICT Mode STTPs

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

Sl. No.	Prog. Code	Programme Title	Programme Co-ordinator	Date: From	Date: To	Duration (Week)	Target Participant / Group	Programme Objectives
42.	ICT042	IP Networking	Rajeev Chatterjee	10/05/2021	21/05/2021	2	Faculty of CSE, IT Computer Application, Electronics, discipline	After going through this program the participants will be able to: • explain the concept of networking and internetworking, • explain the working of Internet, • explain the role of RIR and other regulatory bodies, • explain the various protocols in Routing, Switching, • design campus wide network, • configure switches and routers, • explain the concept and working principles of firewall, • explain the various technologies related to Wi. Fi. networks, • explain the working of Mobile IP networks, and • explain the concept of identity management & access management
43.	ICT043	NBA Accreditation	Rayapati Subbarao	17/05/2021	21/05/2021	1	Faculty of all disciplines	At the end of the programme, the participants will be to: • Identify the Impact of NBA Accreditation • Prepare Vision, Mission, Program Educational Objectives • Prepare Outcomes and Program Outcomes • Learn how to prepare SAR. • Practice Criteria i to x
44.	ICT044	Machine Learning with Python	Chandan Chakraborty & Kinsuk Giri	17/05/2021	21/05/2021	1	Faculty of IT, CSE, ECE, EE, Biomedical, BCA, MCA Electrical & Computational Sciences	After attending this course, the participants will be accomplished with • The notion of Machine Learning and its impact on future employment • Overview of Python programming • Exposure of supervised and unsupervised ML techniques • Hands-on-practice of ML algorithms implementation using Python • Explore for problem solving.
45.	ICT045	Management Issues of Laboratory and Workshop Classes	Dipankar Bose	17/05/2021	21/05/2021	1	Faculty members of all technical institutions	After attending the programme the participants will be able • know varoius management issues of conducting laboratory and workshop classes • understand the effective techniques of management of classroom , macines/equipment and manpower • state different safety aspects
46.	ICT046	Ground Improvement and Soil Stabilisation techniques	Jagat Jyoti Mandal	17/05/2021	21/05/2021	1	Faculty members of Civil & allied disciplines	After attending the programme the participants will be able to • Explain the importance and application of different ground improvement and soil stabilisation techniques in the context of present day infrastructure development • Teach the related topics in more efficient and effective manner through examples
47.	ICT047	Measurement and Experimentation using Sensors, Transducers & Actuators	Sagarika Pal	17/05/2021	21/05/2021	1	Faculty of Electrical, Mechanical, Electronics & Instrumentation disciplines	After completing the course the participants will be able to • Differentiate sensors, transducers and actuators • Define & classify different sensors, transducers and actuators in industry • Experiment with different types of sensors and actuators • Explain the concept of signal conditioning circuits • Apply transducers and actuators in process Control Systems
48.	ICT048	Formal Languages and Automata	Samir Roy	17/05/2021	21/05/2021	1	Faculty of any engineering discipline	After successful completion of the program, the participants will be able to • Explain Formal Languages and Automata • Apply Formal Languages and Automata to solve problems

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49.	ICT049	Estimating and Costing of Non-conventional Energies	Sheela Yadav Rai	17/05/2021	21/05/2021	1	All Discipline	After attending the programme the participants will be able to : • Describe various type of Non-conventional Energies Sources • Understand the scope of Solar energy, Solar Thermal Conversion, Solar Collector, Wind Energy • Estimating & costing of various energies
50.	ICT050	MATLAB & LABVIEW Applications in Engineering	Soumitra Kumar Mandal	17/05/2021	21/05/2021	1	Faculty & Lab Tech. of EE, ECE, IE, EEE	After attending the programme, the participants will be able to • Explain the different aspect of MATLAB & Simulink • Solve simple problem using MATLAB programming • Develop simple model using Simulink • Design and simulation of Engineering problems • Understand fundamentals of LABVIEW • Implement LABVIEW Applications in Engineering
51.	ICT051	Development of Laboratory Instruction and Manual	Subrata Mondal	17/05/2021	21/05/2021	1	Faculty of all disciplines and laboratory technicians	After attending this programme, participants would 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.
52.	ICT052	Student Friendly Methods of Instruction	Uday Chand Kumar	17/05/2021	21/05/2021	1	Faculty and technicians all branches	After attending the programme the participants will be able to • Identify attributes of student friendly instruction • Design instruction • Plan student friendly activities • Demonstrate student friendly instruction
53.	ICT053	Seismic Analysis of Structures using Software	Mithu Dey	24/05/2021	28/04/2021	1	Faculty from Civil and allied branches	After attending the program, participants are expected to be able to • Understand the earthquake effect on structures. • Know the different methods of analysis using software • Familier with advanced technology to resist the earthquake forces.
54.	ICT054	Image Processing using MATLAB	Indrajit Saha	24/05/2021	28/05/2021	1	CSE, IT, BCA, MCA ECE, EE, ME, CIVIL	After attending the program, the participants will be able to • describe the fundamentals of image processing (IP) • apply MATLAB commands to do IP • explain image processing in classroom
55.	ICT055	Concepts of Software Engineering	Ranjan Dasgupta	24/05/2021	28/05/2021	1	Faculty of CSE & IT discipline	After going through this program the participants will be able to: • explain different quality aspects of a software • critically analyse different software development models • explain design theory
56.	ICT056	ICT Tools for Teaching and Learning 1	Arpan Kumar Mondal	24/05/2021	28/05/2021	1	Faculty of all disciplines	After going through this program the participants will be able to: • Explain the concept of ICT Mode of teaching-learning, • Understand the use of various ICT tools, • Apply different ICT tools for e-learning
57.	ICT057	Soft Skills for Teachers	Habiba Hussain	31/05/2021	04/06/2021	1	Teachers from all disciplines	After attending the programme, participants will be able to: • Identify soft skills required for effective teaching • Characterise different soft skills identified • Demonstrate few skills

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58.	ICT058	Introduction to Manufacturing Systems	Nirmal Kumar Mandal	31/05/2021	04/06/2021	1	Mechanical, Production, &Industrial	After attending the programme the participants will be able to • Explain manufacturing systems • Analyse the performance of Automated Manufacturing System
59.	ICT059	Philosophy of RC Design – From Prescriptive as per Codes of Practice to Performance Based	Santanu Bhanja	31/05/2021	04/06/2021	1	Faculty of Civil, Architecture & allied disciplines	After attending the course, the participants will be able to • Understand the philosophy of Limit State Method in a comprehensive manner as per IS:456-2000 • Understand the importance of ductility in R.C. Design as per IS:13920-2016 • Identify the major design and detailing considerations • Differentiate between load and capacity design • Identify the limitations of Limit State Method • Understand Performance based design
60.	ICT060	Advanced Materials Science and Engineering	Subrata Mondal	31/05/2021	04/06/2021	1	Faculty of Chemical Engg. Mechanical Engg., Science, Textiles Engg., Materials Sci. & Engg., Polymer Engg. and allied disciplines	After attending this program, participants would 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.
61.	ICT061	Teaching – Learning Process using Instructional Media	Subrata Chattopadhyay	31/05/2021	04/06/2021	1	All Discipline	After attending the course the participants will be able to • Understand the utility of instructional media • Know the types of instructional media and its advantages • Familiar with the computer to be used as instructional media and its advantages and limitations • Understand the courseware • Classify the Different types of courseware • Application of Computer assisted instruction • Know the feathers of CAI • Explanation of different types of CAI • A model class with CAI
62.	ICT062	Applied Machine Learning in Engineering	Nirmal Kumar Mandal	07/06/2021	11/06/2021	1	All Disciplines	After attending the programme the participants will be able to • Explain supervised and unsupervised learning • Apply Multinomial Logistic Regressions, Monte Carlo Simulation (MCS), Markov Chains in engineering problems
63.	ICT063	NBA Accreditation and SAR Preparation	Rayapati Subbarao	07/06/2021	11/06/2021	1	Any faculty	At the end of the programme, the participants will be to: • Identify the Impact of NBA Accreditation • Prepare Vision, Mission, Program Educational Objectives • Prepare Outcomes and Program Outcomes • Learn how to prepare SAR. • Practice Criteria i to x

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64.	ICT064	Skill Assessment in Laboratory and Workshop Classes	Dipankar Bose	07/06/2021	11/06/2021	1	Faculty members of all technical institutions	After attending the programme the participants will be able to • define different types of skills • distingush between product and process in evaluating students performance in laboratory and workshop classes • know various assesment techniques of skills in the laboratory and workshop classes
65.	ICT065	Engineering Capstone Project	Prasanta Sarkar	07/06/2021	11/06/2021	1	Faculty and Technical Staff of all disciplines	After attending 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
66.	ICT066	Development of Mechanical Engineering Laboratory Experiments and Instruction Sheets	Samiran Mandal	07/06/2021	11/06/2021	1	Faculty members of Mechanical , Automobile and Production Engineering	After attending the programme the participants will be able to • Classify the laboratory experiments • Develop laboratory experiments • Plan laboratory instruction • Prepare laboratory instruction sheets • Evaluate laboratory skills
67.	ICT067	Renewable Energy Sources and Emerging Technologies	Sheela Yadav Rai	07/06/2021	11/06/2021	1	All Discipline	After attending the programme the participants will be able to: • Understand Energy Sources and their utilization • Explain Environmental aspects of electric energies generation • Understand the scope of Solar Thermal Conversion and Solar Photovoltaic system • Describe about wind energy, Geothermal energy and Biomass • Apply Non-conventional energies through various agencies • viz.WBREDA
68.	ICT068	Induction Training	Sukanta Kumar Naskar	07/06/2021	11/06/2021	1	Faculty members of technical instituites	After attending the programme participants will be able to: • Develop concept of curriculum development • Managege the classroom effectively • Develop lesson plan • Identify quality parameters of Technical Education • Identify managerial roles of a tecaher
69.	ICT069	Fundamental of Surveying	Uday Chand Kumar	07/06/2021	11/06/2021	1	Faculty/Instructor/ Technician of Civil Engineering and allied brahcnes	After attending this programme, participants would be able to: • Describe Surveying • Practice different types of Surveying (Chain, Plain Table, Compus, Leveling, Theodolote) • Solve the different type of problems
70.	ICT070	Capstone Project	Urmila Kar	14/06/2021	18/06/2021	1	Faculty members from all technical institutes,	

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71.	ICT071	Machine Learning with R Programming	Chandan Chakraborty	14/06/2021	18/06/2021	1	Faculty of Engineering & Science, Allied disciplines	On successful completion of the course the participants will be able to • Develop knowledge and understanding of the most common types of machine learning problems for Engineering applications, • Explore the overview and learning skill with R Studio, • Expose with the design and development of Supervised Machine Learning Algorithms with R programming • Also Develop Unsupervised machine learning models with R programming • Deploy ML algorithms for engineering problem solution through project based learning.
72.	ICT072	Analysis & Design of Earth Retaining Structures	Jagat Jyoti Mandal	14/06/2021	18/06/2021	1	Faculty members of Civil & allied disciplines	After attending the programme the participants will be able to • Explain basic concepts of Analysis of Earth Retaining Structures • Apply these concepts to Analyse & Design Various types of Earth Retaining Structures • Impart acquired knowledge to students in a systematic manner
73.	ICT073	Programming and Automation using PLC	Sagarika Pal	14/06/2021	18/06/2021	1	Faculty of Electrical, Mechanical, Electronics & Instrumentation disciplines	After completing the course the participant will be able to • Explain working principle of PLC • Describe architecture of PLC system • Develop PLC programmes • Apply PLC in various system automation
74.	ICT074	Fuzzy and Rough Set Theory	Samir Roy	14/06/2021	18/06/2021	1	Faculty of any engineering discipline	After successful completion of the program, the participants will be able to • Explain Fuzzy and rough set theory • Design systems applying Fuzzy and rough set theory
75.	ICT075	Solar Photo Voltic System	Soumitra Kumar Mandal	14/06/2021	18/06/2021	1	Faculty & Lab Tech. of EE, ECE, IE, EEE	After attending the programme, the participants will be able to • Describe the principles of Solar Cell • Identify the various parameters of Solar PV system • Develop an in-depth knowledge about Solar PV Module by performing basic experiments & through field visit • Modelling of Solar PV system using MATLAB • Operation and Control of Solar PV system • Understand fundamentals of Smart grid
76.	ICT076	Fundamental and Applications of Nanomaterials	Subrata Mondal	14/06/2021	18/06/2021	1	Faculty of all disciplines	After attending this program, participants would 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.
77.	ICT077	ICT Tools for Teaching and Learning 2	Arpan Kumar Mondal	14/06/2021	18/06/2021	1	Faculty of all disciplines	After going through this program the participants will be able to: • Explain the concept of ICT Mode of teaching-learning, • Understand the use of various ICT tools, • Apply different ICT tools for e-learning

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78.	ICT078	Municipal Water and Wastewater Treatment	Sailendra Nath Mandal	14/06/2021	25/06/2021	2	Faculty and Staff of any disciplines	After attending the programme the participants will be able to acquire – 1. knowledge of basic concept of drinking water, wastewater, sampling, preservation, analysis, standards, interpretation of result and management of wastewater, impact on human health , 2. skill of handling/demonstrating 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 drinking water analysis, wastewater analysis/ treatment laboratory, 3. attitude of hand-on working/demonstrating in the laboratory/field (Plant Visit)
79.	ICT079	Design and Development of content for e-Learning	Rajeev Chatterjee & Ranjan Dasgupta	14/06/2021	25/06/2021	2	Faculty of all disciplines	After going through this program the participants will be able to: • explain the concept of e-learning, • 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 • develop e-content chunks / learning object in their own subject domain, and • exhibit and demonstrate the process of e-content creation for MOOCs based e-content.
80.	ICT080	Numerical and Statistical Methods with SCILAB	Kinsuk Giri	21/06/2021	25/06/2020	1	Faculty of any Engg. and Science disciplines	On successful completion of the programme the participants will be • able to get an overview on different numerical and statistical methods • get an overview on solution techniques • solve problems using SCILAB
81.	ICT081	Fluid Powered Systems	Dipankar Bose	21/06/2021	25/06/2021	1	Faculty of ME, Production, Automobile Engg.	After attending the programme the participants will be able to • know principles and applications of fluid pwered systems • understand the working principles of various fluid pwererd systems • state characteristics of different fluid powered sustems
82.	ICT082	Machine Learning and it's Applications	Indrajit Saha	21/06/2021	25/06/2021	1	CSE, IT, BCA, MCA ECE, EE, ME, CIVIL	After attending the program, 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
83.	ICT083	Advanced Structural Analysis and Introduction to FEM	Mithu Dey	21/06/2021	25/06/2021	1	Faculty and technicians of civil and allied branches	After attending the program, participants are expected to be able to • Understand the different methods of structural analysis • Solve the problems • Apply the knowledge of FEM in structural analysis • Enable a good understanding how software operate
84.	ICT084	Course on Ancient Engineering, Science and Technology	Nirmal Kumar Mandal & Santanu Bhanja	21/06/2021	25/06/2021	1	Faculty of Engineering with preference to Mechanical, Civil, Architecture & allied disciplines	After attending the programme, the participants will be able to • Explore ancient Indian Science, Technology and, Engineering with special emphasis on Civil and Mechanical Engineering • Explain the ancient Indian knowledge system • Introduce the basic features of ancient Science and Technology • Explain how the basic Science and Technology with limited knowledge may result in wonders.

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85.	ICT085	Induction Training	Sheela Yadav Rai	21/06/2021	25/06/2021	1	Faculty of all disciplines	After attending 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
86.	ICT086	Sensors and Transducers	Subrata Chattopadhyay	21/06/2021	25/06/2021	1	Faculty of Electrical, Mechanical, Electronics & Instrumentation disciplines	After attending the course the participants will be able to • Classify the Different types of Transducers & Actuators used in Industry. • Familiar with the overview of measurement system and selection of instruments • Understand fundamental of pressure, flow, temperature, level, velocity, acceleration, vibration, position, displacement measuring transducers used in process industries. • Apply the Transducers Actuators in process Control Systems. • Know the concept of Intrinsic safety instruments
87.	ICT087	Online Pedagogy	Habiba Hussain	28/06/2021	02/07/2021	1	Teachers from all disciplines	After attending the programme, participants will be able to: • Explain the need for online pedagogy • Plan online instruction • Incorporate different principles for effective online delivery
88.	ICT088	Digital Electronics using VHDL	Soumitra Kumar Mandal	28/06/2021	02/07/2021	1	Faculty & Lab Tech. of EE, ECE, IE, EEE	After attending the programme, the participants will be able to • Study the operations and characteristics of Digital devices • Design of Digital Electronics circuits • Implement digital logic circuits using VHDL
89.	ICT089	Entrepreneurship Development	Subrata Mondal	28/06/2021	02/07/2021	1	Faculty of all disciplines	After attending this programme, participants would 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.
90.	ICT090	Fundamentals of Modern Office Management	Sukanta Kumar Naskar	28/06/2021	02/07/2021	1	Faculty members & staff of technical instituites	After attending the programme participants will be able to: • Develop fundamental knowledge of management • Apply the purchase procedure effectively • Develop concept of CCS (CCA) rules • Apply basic tools by using computer

NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING & RESEARCH, KOLKATA

APPLICATION FORM

1. Prog. Code

2. (a) Programme Title :

   (b) Date : From To

   (c) Programme Coordinator(s) :

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

   (b) Designation :

   (c) Department :

   (d) Institution :

   (e) Contact Address : Pin:

   State

   (f) Caste : SC ST OBC Gen

   (g) Contact Number : Mobile Phone Fax

   Email

4. Highest Academic Qualification:

Degree/Diploma	University/Others	Year of Passing	Class Obtained

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

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.

Scanned copy may please be sent to Academic Coordinator academic@nitttrkol.ac.in