

**GOVERNMENT OF TELANGANA  
DEPARTMENT OF TECHNICAL EDUCATION**

**OFFICE OF THE  
COMMISSIONER OF TECHNICAL EDUCATION  
TELANGANA :: HYDERABAD**

- Sub : TECHNICAL EDUCATION –T & PS- ICT Mode STTP for faculty offered by National Institute of Technical Teachers' Training and Research (NITTTR), Kolkata- Reg.
- Ref : Program Calendar of ICT Mode STTP for September, 2020 offered by NITTTR, Kolkata.

With reference to the above cited, the Principals of all Government Polytechnics under the control of this department are hereby informed that the National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata is organizing ICT Mode STTP scheduled from 07.09.2020 to 02.10.2020.

In this connection, the Principals of all Govt. Polytechnics of Telangana State are hereby informed to instruct the faculty who are in short of training programs may register online in NITTTR, Kolkata website: [www.nitttrkol.ac.in](http://www.nitttrkol.ac.in) with the **Application Form Link: <http://bit.do/ICT-Application-Form>** and the same copy may be sent to this office to [adtrg.ts@gmail.com](mailto:adtrg.ts@gmail.com). The program completion certificate may be sent at the earliest to the same mail id after completion of the online course.

The receipt of the memo shall be acknowledged.

(This has the approval of the CTE, Telangana)

Signature Not Verified  
Digitally signed by SWAMY AVULA  
Date: 2020.09.04 17:53:57 IST  
Reason: Approved  
For COMMISSIONER

To,  
The Principals of all Government Polytechnics in the State.  
Copy to the Secretary, SBTET, T.S., Hyderabad.  
Copy to the Director, NITTTR, Kolkata.

# National Institute of Technical Teachers' Training & Research, Kolkata

## List of ICT Mode STTP for the Month of September, 2020

**Application Form Link: <http://bit.do/ICT-Application-Form>**

Sl. No.	Prog. Code	Programme Title	Programme Co-ordinator(s)	Date: From	Date: To	Week (s)	Target Participant / Group	Programme Objectives
1	ICT104	Rural Development and Role of Technical Institution	Uday Chand Kumar	07-09-2020	11-09-2020	1	All disciplines	
2	ICT105	Outcome Based Accreditation and NBA	Urmila Kar	07-09-2020	11-09-2020	1	Faculty members and technicians from all technical institutes	After attending the programme, participants will be able to: <ul style="list-style-type: none"> <li>• explain the need for and features of Outcome Based Education (OBE)</li> <li>• justify the requirement of Outcome Based Accreditation(OBA)</li> <li>• identify parameters for OBA</li> <li>• explain the features of Outcome Based Curriculum (OBC)</li> <li>• identify outcome based learning-teaching and assessment processes</li> <li>• explain the process of preparing self-assessment report (SAR) for Accreditation by NBA</li> </ul>
3	ICT106	Essentials of Strategic Management	Sukanta Kumar Naskar	07-09-2020	11-09-2020	1	Faculty from all department	

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4	ICT107	Industrial Automation using PLC, DCS and SCADA	Sagarika Pal	07-09-2020	11-09-2020	1	Faculty of Electrical, Mechanical, Electronics & Instrumentation disciplines	After completing the course the participant will be able to <ul style="list-style-type: none"><li>• Explain Conventional control techniques for industrial automation</li><li>• Describe complex controls such as ratio, cascade, feed forward etc.</li><li>• Utilize the electrical instruments in hazardous area in process plant</li><li>• Develop programme on PLC and DCS for process automation</li><li>• Explain SCADA systems for various process control systems</li></ul>
5	ICT108	Engineering System Modelling	Nirmal Kumar Mandal	07-09-2020	11-09-2020	1	All Discipline	After attending the programme the participants will be able to <ul style="list-style-type: none"><li>• Model a system.</li><li>• Analyse the physical system</li></ul>

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6	ICT109	NBA Accreditation and SAR preparation for engineering institutes	Rayapati Subbarao	07-09-2020	11-09-2020	1	Any faculty	At the end of the programme, the participants will be to: <ul style="list-style-type: none"> <li>• Identify the Impact of NBA Accreditation</li> <li>• Prepare Vision, Mission, Program Educational Objectives</li> <li>• Prepare Outcomes and Program Outcomes</li> <li>• Learn how to prepare SAR.</li> <li>• Practice Criteria i to x</li> </ul>
7	ICT110	Development of Mechanical Engineering Laboratory Experiments and Instruction Sheets	Samiran Mandal	07-09-2020	11-09-2020	1	Faculty members of Mechanical, Automobile and Production Engineering	
8	ICT111	Effective Modes of Student Assessment and Evaluation	Dipankar Bose	07-09-2020	11-09-2020	1	Faculty members of all technical institutions	After attending the programme, the participants will be able to <ul style="list-style-type: none"> <li>• describe the meaning Assessment and different evaluations</li> <li>• state the purposes, principles and characteristics of quality assessment</li> </ul>

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9	ICT112	Concepts of Software Engineering	Ranjan Dasgupta & Samir Roy	07-09-2020	11-09-2020	1	Faculty of CSE & IT discipline	After going through this program the participants will be able to: <ul style="list-style-type: none"> <li>• explain different quality aspects of a software</li> <li>• critically analyse different software development models and</li> <li>• explain benefits of object oriented design paradigm</li> </ul>
10	ICT113	Design & Detailing of Reinforced Concrete Structural Elements	Jagat Jyoti Mandal	07-09-2020	11-09-2020	1	Faculty members of Civil & allied disciplines	After attending the programme the participants will be able to explain <ul style="list-style-type: none"> <li>• The properties of concrete and steel</li> <li>• Basic concept of limit state design</li> </ul> Design various basic reinforced structural elements, such as <ul style="list-style-type: none"> <li>ü Beam</li> <li>ü Slab</li> <li>ü Columns</li> </ul> Teach the related topics in more efficient manne
11	ICT114	Control Engineering with MATLAB	Prasanta Sarkar	07-09-2020	11-09-2020	1	Faculty members of EE, ECE, ME,, Instrumentation disciplines	

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12	ICT115	Testing and Health Benefits of Drinking Water	Sailendra Nath Mandal	07/09/2020	18/09/2020	2	Faculty and Staff of any discipline	<p>After attending the programme the participants will be able to acquire –</p> <ul style="list-style-type: none"> <li>• knowledge of different drinking water testing parameters, equipment, methods of testing , different standards and impact on human health,</li> <li>• skill of handling 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 hand-on working in the laboratory/field (Plant Visit)</li> </ul>
13	ICT116	Renewable Energy Sources and Emerging Technologies	Sheela Yadav Rai	07-09-2020	11-09-2020	1	Faculty members from technical institutions	

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14	ICT117	Advanced Process Control using PLC DCS and SCADA	Subrata Chattopadhyay	07-09-2020	11-09-2020	1	Faculty of Electrical, Mechanical, Electronics & Instrumentation disciplines	
15	ICT118	Linear Control System Analysis and Fuzzy Logic Control Using MATLAB	Soumitra Kumar Mandal	14-09-2020	18-09-2020	1	Faculty members of Electrical, Electronics, Instrumentation disciplines	After attending the program, the participants will be able to <ul style="list-style-type: none"> <li>• Design of Control System using MATLAB</li> <li>• Discrete-Time Systems</li> <li>• Fuzzy Logic Control</li> <li>• Appl. of Fuzzy Logic ToolBox</li> </ul>
16	ICT119	Applied Machine Learning	Chandan Chakraborty	14-09-2020	25-09-2020	2	Faculty members of CSE, IT, Electronics disciplines	
17	ICT120	Application of Software for analysis and Design using IS:456-2000 and IS:13920-2016	Santanu Bhanja	14-09-2020	18-09-2020	1	Faculty of Civil, Architecture & allied disciplines	After attending the programme, the participants will be able to <ul style="list-style-type: none"> <li>• Understand the role of software in structural analysis and design</li> </ul>

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								<ul style="list-style-type: none"> <li>• Know the basic features of a universally accepted standard software</li> <li>• Apply IS Codal provisions in analysis, design and detailing - IS 456, 1893, 875, 13920 etc.</li> <li>• Analyze, design and detail real-life multi- storeyed buildings, civil engineering structures</li> </ul> <p>Analyze and design foundations</p>
18	ICT121	AutoCAD for Engineers	Mithu Dey	14-09-2020	18-09-2020	1	Faculty members from all Technical institutes	
19	ICT122	Active Learning under engineering education	Urmila Kar	21-09-2020	25-09-2020	1	Faculty members and technicians from all technical institutes,	<p>After attending the programme, participants will be able to:</p> <ul style="list-style-type: none"> <li>• identify features of learning-teaching system under engg.education</li> <li>• explain the need for active learning</li> <li>• analyse the learning styles of engineering students</li> <li>• identify innovative approaches for active learning</li> <li>• illustrate the features of Problem</li> </ul>



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								Based Learning and Project Based Learning <ul style="list-style-type: none"> <li>• identify the way to incorporate active learning and life-long learning into engineering curricula</li> </ul>
20	ICT123	Data Analysis using MATLAB	Indrajit Saha	21-09-2020	25-09-2020	1	CSE, IT, BCA, MCA ECE, EE, ME, CIVIL	After attending the program, the participants will be able to (1) analyze the data using various statistical methods (2) visualize the data for better understanding (3) develop prediction model for real-life data driven problems
21	ICT124	Leadership & team building in academia	Habiba Hussain	21-09-2020	25-09-2020	1	Faculty from all department	
22	ICT125	Essentials of HRM	Sukanta Kumar Naskar	21-09-2020	25-09-2020	1	Faculty from all department	

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23	ICT126	Applications of MATLAB in Control System, Image Processing, Fuzzy Logic and GUI	Sagarika Pal	21-09-2020	25-09-2020	1	Faculty of Electrical, Mechanical, Electronics & Instrumentation disciplines	After completing the course the participant will be able to <ul style="list-style-type: none"> <li>• Use MATLAB commands</li> <li>• Apply Control System Tool Box Commands</li> <li>• Illustrate Simulink Modelling techniques</li> <li>• Apply Image processing Tool Box Commands</li> <li>• Apply Fuzzy Logic Tool Box</li> <li>• Create GUI using GUIDE</li> <li>• Create GUI using GUIDE</li> </ul>
24	ICT127	Design & Analysis of Algorithms	Samir Roy	21-09-2020	25-09-2020	1	Faculty of any engineering discipline	After successful completion of the programme, the participant will be able to <ul style="list-style-type: none"> <li>• Design an algorithm</li> <li>• Analyze an algorithm</li> <li>• Implement an algorithm</li> <li>• Explain an algorithm</li> </ul>
25	ICT128	Power Plant Instrumentation	Subrata Chattopadhyay	21-09-2020	25-09-2020	1	Faculty members of EE, ECE, Instrumentation disciplines	

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26	ICT129	Thesis and Research paper writing	Rayapati Subbarao	21-09-2020	25-09-2020	1	Any faculty	At the end of the programme, the participants will be to: <ul style="list-style-type: none"> <li>• describe the steps involved in writing a thesis.</li> <li>• identify the scope of a thesis.</li> <li>• construe the results in a better way.</li> <li>• derive conclusions from the plots and contours made.</li> <li>• discover the ways of writing a research paper.</li> <li>• Communicate a paper in their area of research</li> </ul>
27	ICT130	Assessment and Evaluation of student's Performance	Samiran Mandal	21-09-2020	25-09-2020	1	Faculty members of Technical Institutions	
28	ICT131	Hydraulics	Dipankar Bose	21-09-2020	25-09-2020	1	Faculty members of Technical Institutions with ME, Production and Automobile ,Civil Engineering Specialization	After attending the programme, the participants will be able to <ul style="list-style-type: none"> <li>• understand the principles of hydraulics</li> <li>• know the hydrostatics concepts</li> <li>• realize concept of hydrodynamics</li> <li>• know principles of flow through</li> </ul>

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								<p>pipes</p> <ul style="list-style-type: none"> <li>• identify the concept of open channel flow</li> </ul>
29	ICT132	Electricity Rules and Code of Practices	Prasanta Sarkar	21-09-2020	25-09-2020	1	Faculty of Electrical, Mechanical, Electronics & Instrumentation disciplines	
30	ICT133	Introduction to Welding Processes	Arpan Kumar Mondal	21-09-2020	25-09-2020	1	All	<p>After attending the programme the participants will be able to</p> <ul style="list-style-type: none"> <li>• Explain the principles of various welding processes</li> <li>• Classify the welding processes</li> <li>• Understand the physics of welding</li> <li>• Describe the advanced welding processes</li> <li>• Study the defects in welding</li> <li>• Describe the welding symbols and positions</li> </ul>

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31	ICT134	Power Generation from Energy Resources	Sheela Yadav Rai	21-09-2020	25-09-2020	1	Faculty members of all technical institutions	
32	ICT136	CNC Machines	Nirmal Kumar Mandal	28-09-2020	02-10-2020	1	Mechanical, Production, & Industrial	After attending the programme the participants will be able to <ul style="list-style-type: none"> <li>• Explain CNC Technology.</li> <li>• State the constructional features of CNC Machines</li> </ul>
33	ICT137	Fundamentals of Network Security	Indrajit Saha	28-09-2020	02-10-2020	1	CSE, IT, BCA, MCA ECE, EE, ME, CIVIL	After attending the program, the participants will be able to <ol style="list-style-type: none"> <li>(1) describe the fundamentals of Network Security</li> <li>(2) demonstrate how to maintain the privacy of computer data</li> <li>(3) explain network security in classroom</li> </ol>
34	ICT138	Numerical and Statistical Methods with SCILAB	Kinsuk Giri	28-09-2020	02-10-2020	1	Faculty of any Engineering and Science disciplines	On successful completion of the programme the participants will be able to <ul style="list-style-type: none"> <li>• get an overview on different numerical and statistical methods</li> <li>• get an overview on solution</li> </ul>

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								techniques <ul style="list-style-type: none"> <li>• solve problems using PYTHON</li> </ul>
35	ICT139	Refresher course on Digital Electronics	Soumitra Kumar Mandal	28-09-2020	02-10-2020	1	Faculty of Electrical, Electronics & Instrumentation disciplines	After attending the programme, the participants will be able to <ul style="list-style-type: none"> <li>• Study the operations and characteristics of Digital devices</li> <li>• Design of Digital circuits</li> <li>• Implement digital electronics circuits using VHDL</li> </ul>
36	ICT140	Managing Learning Resources	Uday Chand Kumar	28-09-2020	02-10-2020	1	All disciplines	
37	ICT141	Design of Earthquake Resistant RCC Buildings using Fundamental Principles of Limit State Method and beyond	Santanu Bhanja	28-09-2020	02-10-2020	1	Faculty of Civil, Architecture & allied disciplines	After attending the programme, the participants will be able to <ul style="list-style-type: none"> <li>• Appreciate the underlying principles of earthquake resistant design of R.C. buildings</li> <li>• Understand the philosophy of Limit State Method in a comprehensive manner as per IS:456-2000</li> <li>• Understand the development in the field of material science</li> </ul>

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								<ul style="list-style-type: none"><li>• Apply the Amendments to the Code</li><li>• Identify the major design and detailing considerations</li><li>• Understand the philosophy of Design as per IS:13920-2016</li></ul> Know the probable modifications in the forthcoming revision