

**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 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. 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.

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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"> • 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 |
| 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"> • Explain Conventional control techniques for industrial automation • Describe complex controls such as ratio, cascade, feed forward etc. • Utilize the electrical instruments in hazardous area in process plant • Develop programme on PLC and DCS for process automation • Explain SCADA systems for various process control systems |
| 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"> • Model a system. • Analyse the physical system |

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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"> • 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 |
| 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"> • describe the meaning Assessment and different evaluations • state the purposes, principles and characteristics of quality assessment |

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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"> • explain different quality aspects of a software • critically analyse different software development models and • explain benefits of object oriented design paradigm |
| 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"> • The properties of concrete and steel • Basic concept of limit state design Design various basic reinforced structural elements, such as <ul style="list-style-type: none"> ü Beam ü Slab ü Columns 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"> • knowledge of different drinking water testing parameters, equipment, methods of testing , different standards and impact on human health, • 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) |
| 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"> • Design of Control System using MATLAB • Discrete-Time Systems • Fuzzy Logic Control • Appl. of Fuzzy Logic ToolBox |
| 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"> • Understand the role of software in structural analysis and design |

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| | | | | | | | | <ul style="list-style-type: none"> • Know the basic features of a universally accepted standard software • Apply IS Codal provisions in analysis, design and detailing - IS 456, 1893, 875, 13920 etc. • Analyze, design and detail real-life multi- storeyed buildings, civil engineering structures Analyze and design foundations |
| 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, | After attending the programme, participants will be able to: <ul style="list-style-type: none"> • identify features of learning-teaching system under engg.education • explain the need for active learning • analyse the learning styles of engineering students • identify innovative approaches for active learning • illustrate the features of Problem |

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| | | | | | | | | Based Learning and Project Based Learning <ul style="list-style-type: none"> identify the way to incorporate active learning and life-long learning into engineering curricula |
| 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"> • 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 • Create GUI using GUIDE |
| 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"> • Design an algorithm • Analyze an algorithm • Implement an algorithm • Explain an algorithm |
| 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"> • 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 |
| 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"> • understand the principles of hydraulics • know the hydrostatics concepts • realize concept of hydrodynamics • know principles of flow through |

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| | | | | | | | | <p>pipes</p> <ul style="list-style-type: none"> • identify the concept of open channel flow |
| 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"> • Explain the principles of various welding processes • Classify the welding processes • Understand the physics of welding • Describe the advanced welding processes • Study the defects in welding • Describe the welding symbols and positions |

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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"> • Explain CNC Technology. • State the constructional features of CNC Machines |
| 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"> (1) describe the fundamentals of Network Security (2) demonstrate how to maintain the privacy of computer data (3) explain network security in classroom |
| 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"> • get an overview on different numerical and statistical methods • get an overview on solution |

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| | | | | | | | | techniques <ul style="list-style-type: none"> • solve problems using PYTHON |
| 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"> • Study the operations and characteristics of Digital devices • Design of Digital circuits • Implement digital electronics circuits using VHDL |
| 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"> • Appreciate the underlying principles of earthquake resistant design of R.C. buildings • Understand the philosophy of Limit State Method in a comprehensive manner as per IS:456-2000 • Understand the development in the field of material science |

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