Motilal Nehru National Institute of Technology Allahabad Allahabad -211004

Electrical Engineering Department Schedule Plan for Short Term Course on Online Short Term Course *PERICA-2020, September 16th to 20th, 2020*

| | 09-30 AM to 10-00 AM | Introduction among participants with coordinators and convener |
|---------------------------|--------------------------|---|
| | 10-00 AM to 11-00 AM | Inauguration of the course |
| <u>I st day</u> | 11-00 AM to 12-30 PM | <u>Lecture-1</u> : Renewable Energy Grid Integration Technology and Smart |
| <u></u> | | Energy Market Management |
| 16/09/2020 | | Prof. Rajendra Kumar Pandey, Indian Institute of Technology(BHU) |
| Wednesday | | Varanasi, India |
| | | Lunch break 01-00 PM to 02-00 PM |
| | 02-00 PM to 03-30 PM | Lecture-2 Application of Electrical Network Frequency of Digital |
| | | Recordings for Location-Stamp Verification |
| | | Prof. Celia Shahnaz, Bangladesh University of Engineering and |
| | | Technology, Dhaka, Bangladesh |
| | | Break 0330 pm to 04-00 pm |
| | 04-00 PM to 05-30 PM | Lecture-3 Switched Mode Rectifiers and High PFC Converters |
| | | Prof. R. K. Tripathi, M.N. National Institute of Technology Allahabad, |
| | | India |
| | 05-30 PM to 06-00 PM | Discussion with the participants to share their views on the Ist day lectures |
| | | I st Day of the Course Ends |
| 2 nd Day | 09-30 AM to 11-00 AM | Lecture-4 Efficient Power Management Techniques |
| | | Dr. N. Laxminarasamma, Indian Institute of Technology Madras, India. |
| 17/00/2020 | | Break 1100 am - 1130 am |
| 17/09/2020 | 11-30 AM to 01-00 PM | Lecture-5 MATLAB Simulation based Analysis of High Voltage |
| Thursday | | Converters for Charging Applications- |
| | | Dr. Vaishnavi Ravi, Ph.D Scholar, Indian Institute of Technology Madras, |
| | | India |
| | 02.00 DM = 02.20 DM | Lunch break 0100pm -0200 pm |
| | 02-00 PM to 03-30 PM | Lecture-6 Active Filter Design, Control and Applications in DG System |
| | | Dr.Sabha Raj Arya, S.V. National Institute of Technology Surat, India. |
| | 04-00 PM to 05-30 PM | Break 0330 pm – 04-00 pm |
| | 04-00 PM to 05-50 PM | Lecture-7 New Era of Renewable Resources and Energy Harvesting Mr. Umesh Kumar Soni, Ph.D. Scholar, M.N. National Institute of |
| | | Technology Allahabad, India |
| | 05-30 PM to 06-00 PM | Discussion with the participants to share their views on the 2 nd day lectures |
| | 00 00 1111 10 00 00 1111 | |
| ard D | | II nd. Day of the Course Ends |
| <u>3rd Day</u> | 09-30 AM to 11-00 AM | Lecture-8 Modelling and Simulation of Simple Battery Charger and 1- |
| 10/00/2020 | | phase Inverter using Typhoon HIL Software Mr Sudipto Poddar, Field & Support Engineer |
| 18/09/2020 Friday | | Typhoon HIL Hard Ware Solutions |
| rnuay | | Break 11-00 am - 1130 am |
| | | |
| | 11-30 AM to 01-00 PM | Lecture-9 Real Time Simulation of Electric Vehicle, Induction Motors |
| | | And AC-DC Converters using Typhoon HIL Software |
| | | Shashank Kumar, Sr. Application Engineer |
| | | Typhoon HIL Hard Ware Solutions Lunch break 0100 pm -0200 pm |
| | 02-00 PM to 03-30 PM | Lunch break 0100 pm -0200 pm Lecture-10 Introduction to PSCAD and use in Power Electronics |
| | 02-001 101 10 05-501 101 | Simulation |
| | | Dr. Raju Swami, Pacific University, India |
| | | Break 0330 pm - 0400 pm |
| | 04-00 PM to 05-30 PM | Lecture-11 Panel Discussion with Electrical Engineering Expert |
| | | |
| | 05-30 PM to 06-00 PM | Discussion with the participants to share their views on the 3 rd day lectures |
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| Online Short Term Course PERICA-2020, September 10 10 20, 2020 | | | |
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| | | III rd. Day of the Course Ends | |
| | | | |
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| | | Lecture-12 Solar PV Grid Interfaced Systems | |
| 4 th Day | 09-30 AM to 11-00 AM | Prof. Bhim Singh, Indian Institute of Technology Delhi, India | |
| | Break 1100 am - 1130 am | | |
| 19/09/2020 | 11-30 AM to 01-00 PM | Lecture-13 Power Quality Problems and Power Filters | |
| Saturday | | Prof. Bhim Singh, Indian Institute of Technology Delhi, India | |
| | Lunch break 0100pm -0200 pm | | |
| | 02-00 PM to 03-30 PM | Lecture -14 Harmonic Filter Design for Power Quality Improvement | |
| | | P. Karuppanan, M.N. National Institute of Technology Allahabad, India | |
| | | Break 0330 pm - 0400 pm | |
| | 04-00 PM to 05-30 PM | Lecture -15 Adjustable speed drives - Future challenges and applications. | |
| | | Dr. Indrajit Sarkar, National Institute of Technology Rourkela, India | |
| | 05-30 PM to 06-00 PM | Discussion with the participants to share their views on the 4th day | |
| | 05-50 1 10 00-00 1 10 | | |
| 5th Dam | 4 th Day of the Course Ends | | |
| <u>5th Day</u> | 09-30 AM to 11-00 AM | Lecture -16 Digital Controller for Power Converters Applications | |
| 20/00/2020 | | Prof. Rajesh Gupta, M.N. National Institute of Technology Allahabad, India | |
| 20/09/2020 India Sunday Break 11-00 am - 1130 am | | | |
| Sunday | 11-30 AM to 01-00 PM | | |
| | 11-30 AM to 01-00 PM | Lecture-17 Energy Storage Technologies, Charging Schemes and | |
| | | Charging Stations for Electric Vehicles | |
| | | Dr.M.Venkatesh Naik, M.N. National Institute of Technology Allahabad, India. | |
| | | Lunch break 0100 pm -0200 pm | |
| | 02-00 PM to 03-30 PM | Lecture-18 The Future of Distribution | |
| | 02-00 PM to 03-30 PM | | |
| | | Prof.Paulson Samuel, M.N. National Institute of Technology Allahabad, India. | |
| | | | |
| | 04-00 PM to 06-00 PM | Break 0330 pm – 0400 pm Valedictory and Feedback from participants | |
| | 04-00 PM to 06-00 PM | valedictory and Feedback from participants | |
| | | | |
| | | Shoutterne ogura DEDICA 2020 Fr. J. | |
| | | Short term course PERICA-2020 Ends | |
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