

ABOUT AICTE

All India Council for Technical Education (AICTE) is a national level Apex Advisory Body for facilitating technical education and to promote development in the country in a coordinated and integrated manner. Proper planning and co-ordinated development of a technical education system throughout the country is one of their objective. It is in this context AICTE have kindly sponsored this Short Term Training Programme (STTP) on Enhancement in Loadability of EHV Transmission System: Reduction in Line Losses.

ABOUT GGITS JABALPUR

Gyan Ganga Institute of Technology & Sciences (GGITS), Jabalpur is a renowned institute that has carved a niche for itself in the field of technical education in a very short span of time since its inception in 2003. GGITS is an ISO 9001:2008 Certified technical institution affiliated to State Technical University, RGPV, Bhopal, runs UG courses B. Tech./B.E. in various disciplines like EC, EE, EX, ME, CE, CS & IT and also has PG courses M.Tech. in VLSI Design & Embedded System and M.Tech. in Energy Technology, M.Tech in Power System & Automation (Part Time Course) etc. Other post graduate courses include MCA & MBA. The Institute has been accredited with excellence by National Board of Accreditation (NBA), New Delhi. Gyan Ganga Institute of Technology & Sciences is also prominent member of NASSCOM.

ABOUT EE DEPARTMENT

Department of Electrical Engineering (EE) is established in the year 2003 with the intake of 60 students to meet the requirements of Electrical Engineers for power sector, power sector industries, productions industries (PSU/Private) and R & D activities of Electrical Engineering after the consultation with stakeholders of the institute. Excellent infrastructure and lab equipments are provided for the students, so that our students come out with knowledge of latest cutting edge technology in both software and hardware. The Electrical engineering department has been accredited with excellence by National Board of Accreditation (NBA), New Delhi till 30th June, 2021.

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AICTE SPONSORED

ONLINE MODE
SHORT TERM TRAINING PROGRAM
(STTP)
(SERIES 02 OF 03)

ON
ENHANCEMENT IN LOADABILITY OF EHV
TRANSMISSION SYSTEM: REDUCTION IN LINE
LOSSES

16 -21 NOVEMBER, 2020



ORGANIZED BY
DEPARTMENT OF ELECTRICAL ENGINEERING



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**SHORT TERM TRAINING PROGRAM (STTP)
ENHANCEMENT IN LOADABILITY OF EHV
TRANSMISSION SYSTEM
(SERIES 02 OF 03)**

16 -21 NOVEMBER, 2020

COURSE OBJECTIVE

The main objective of the Short Term Training Programme (STTP) is to adopt the quality technical education by providing platform from knowledge exchange between the academicians & field/industry engineers. To explore basic understanding, to support efforts for developing, demonstrating and commercializing new and emerging technologies. To enhance knowledge of practical aspects of Electrical Power System and create awareness of power system planning survey & coordinated system planning done by the Central Electricity Authority of India at national level. Clarity of methods of evaluation of transmission and distribution losses in EHV/HV/LT power systems. In depth understanding about the coordination of generation and transmission network expansion, long term capacity planning, optimal transmission network expansion planning, integration and embedding of large renewable sources like wind and solar , power system load flows, contingencies analysis , short circuit levels analysis, optimal installation of FACTS devices and reactive power management techniques. This STTP will provide the opportunity to faculty for up gradation of knowledge and will acquaint them with the use of state of art application software's like MALAB, Mi-Power and PSAF etc.

EXPECTED OUTCOME

The trained faculty will have updated knowledge of practical aspects of Electrical Power generation/transmission/distribution systems prevalent in India. The upcoming Electrical engineers will have understanding of India Electricity act and also a fair picture of transmission/distribution losses. The graduates when engaged/employed in the power sector will be able to plan/control the electrical power system in much efficient manner. They will get the reflection of state of art technologies in power system Engineering

COURSE CONTENTS

- Power System : Past, Present & Future
- Power System and Integration of Renewable Energy Resources for Enhancement of Loading Capability of Transmission
- Application of FACTS devices for enhancement of Available Power Transfer Capability in Transmission Network
- HVDC Transmission & Power System Dynamics
- Technical Challenges in Large Scale Grid Integration of RES
- Economic/Regulatory Issues of RES
- Smart Energy System/ Demand Response
- Microgrid and AI applications
- Transmission System Planning
- Microgrid: A Case Studies of India
- Cyber Security In Power Sector

WHO CAN ATTEND

Programme is open to faculty from all engineering colleges and universities affiliated to AICTE. Industry personnel working in the allied discipline may also apply. Limited seats are available for M. Tech /Ph.D. research scholars.

HOW TO APPLY

The participants may log on to the website www.ggits.org and fill up the application form selecting the name of the course. Participants can also register themselves through the registration link <https://tinyurl.com/aicsttp2020eedggits2>.

REGISTRATION & IMPORTANT DATES

No Registration Fees

Last Date of Registration: 15-11-2020

CONTACT US

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RESOURCE PERSONS

The course will be conducted by the eminent experts from the reputed institutes like IITs, IIITs and experts from Power Sector industry.

❖ **DR. ASWANI KUMAR**
▪ PROFESSOR
▪ ELECTRICAL ENGINEERING DEPARTMENT
▪ NIT, KURUKSHETRA

❖ **DR. SANJEEV SINGH**
▪ PROFESSOR
▪ ELECTRICAL ENGINEERING DEPARTMENT,
▪ MANIT, BHOPAL

❖ **DR. TRIPTA THAKUR**
▪ PROFESSOR
▪ ELECTRICAL ENGINEERING DEPARTMENT,
▪ MANIT, BHOPAL

❖ **DR. SANJAY MAURYA**
• HOD & ASOCIATE PROFESSOR
• ELECTRICAL ENGINEERING DEPARTMENT
• GLA, UNIVERSITY, MATHURA, U.P.

❖ **DR. SHAILENDRA DWIVEDI**
• ASSISTANT PROFESSOR
• ELECTRICAL ENGINEERING DEPARTMENT,
• MANIT, BHOPAL

❖ **SHRI M. M. DHOKE**
• SUPERINTENDING ENGINEER
• MPPTCL, JABALPUR

❖ **PROF. RAJEEV CHAUHAN**
• HEAD
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❖ **SHRI HITESH TIWARI**
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