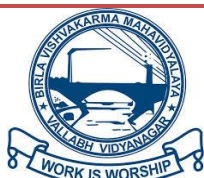


A Report
On
TEQIP III Sponsored One Week STTP on
"RECENT ADVANCES AND PRACTICES IN POWER & ENERGY
SECTORS"
(9th December - 14th December 2019)
Jointly Organized
by

Department of Electrical Engineering
B V M Engineering College
(An Autonomous Institution)
Vallabh Vidyanagar – 388120, Gujarat
www.bvmengineering.ac.in



Department of Electrical Engineering
Govt. Engineering College
(An Autonomous Institution)
Banswara – 327001
Rajasthan
www.gecbanswara.ac.in



TEQIP-III Sponsored One Week Short Term Training Program On

"RECENT ADVANCES AND PRACTICES IN POWER & ENERGY SECTORS"
09th – 14th December 2019

Jointly Organized by

Department of Electrical Engineering
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Department of Electrical Engineering
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Chief Patron

Er. Bhikhubhai B. Patel
(Hon. Chairman, CVM & BoG BVM)

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(CPA, NPIU)

Dr. Bhavesh Patel
(VC, CVM)

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(Hon. Jt. Secretary)

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(Hon. Vice President, CVM)

Dr. S. G. Patel
(Hon. Secretary)

Shri. Mehul Patel
(Hon. Jt. Secretary)

Shri Vishal Patel
(Hon. Jt. Secretary)

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Dr. Indrajit Patel
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Principal, GECB

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TEQIP III Coordinator

Nodal Officer, Academics

Nodal Officer, Procurement

Nodal Officer, Finance

FSD Co-coordinator

Twinning Coordinator

Advisor

Department of Electrical Engineering

Dr. N. G. Mishra
Head (BVM)

Prof. Abhishek Singh
Head (GECB)

Program Conveners

Dr. N. G. Mishra
Professor (BVM)

Prof. A. A. Shaikh
Asso. Prof. (BVM)

Advisors

Dr. B. G. Desai

Dr. V. N. Kamat

Dr. Satish Chetwani

Dr. Chirag Parekh

Energy Audit Consultant, Baroda

Director, Baroda Meters Ltd, V.U.N.

Asst. Director & Head (R&D), ERDA, Baroda

Manager, Atlanta Electricals Pvt. Ltd., GIDC, V.U.N.

Registration Details

Fees:

PG Students	: Rs. 500/-
Research Scholars/Academicians	: Rs. 1000/-
Delegates from industries	: Rs. 2500/-

The registration fees should be paid in form of Cheque or Bank Demand Draft drawn in favor of Principal, BVM Engineering College, payable at Vallabh Vidyanagar. It is compulsory for all applicants to send hardcopy with Demand Draft / Cheque on or before 04th December 2019 to the following address.

Programme Coordinator
Electrical Engineering Department, BVM Engineering College, Vallabh Vidyanagar – 388120, Ta. & Dist. Anand (Gujarat)
Website: www.bvmengineering.ac.in
Email: sttp_ee@bvmengineering.ac.in
Mobile No: 7405908815 / 9879296030
Last date of Registration: 29th November 2019.
Confirmation of Participation: on or before 30th November 2019.

❖ **About CVM**

One of the greatest son of India Late Sardar Vallabhbhai Patel inspired Shri Bhaikaka and Shri BhikhabhaiSaheb for rural resurgence of post-independent India through education and thus Charutar Vidya Mandal was established in the year 1945 as a charitable trust with a prime objective of rural development through education to bring about the social awakening, social upliftment and enrichment. Over subsequent years, Dr H. M. Patel consolidated the efforts in by the founder. In 1994 Dr C. L. Patel took over the reigns of CVM as the chairman, and through his dynamic leadership. He added a modern education campus at New Vallabh Vidyanagar. At present, CVM operates 48 educational institutions with 45000 students from 18 states of India and 12 countries across the world under the dynamic chairman Shri Bhikhubhai Patel. CVM is one of the major education trusts of our country catering quality education to all sections of society. CVM is celebrating 75 year of success and excellence this year.

❖ **About BVM**

BVM is a Premier Autonomous Institution of Charutar Vidya Mandal (CVM) founded in 1948. The motto of BVM: Work is worship. BVM is the first-degree engineering college of the Gujarat state. More than 21000 engineers have graduated from this college. BVM offers B. Tech, M. Tech and Ph. D degree Programme. The college is situated at Vallabh Vidyanagar, which is about 4 km from Anand Town. The most striking feature of BVM is the dedicated and experienced faculty base.

❖ **About Electrical Engineering Department**

The Department of Electrical Engineering was established in 1948 with an intake of 25 seats which increased to 60 in 1954. The program is accredited by NBA. The program has been granted autonomy by the University Grant Commission from the academic year 2015-16.

❖ **About TEQIP III**

The Project, Third Phase of Technical Education Quality Improvement Programme (referred to as TEQIP-III) is fully integrated with the Twelfth Five-year Plan objectives for technical Education as a key component for improving the quality of Engineering Education in existing institutions with special consideration for low income states and special category states and support to strengthen few affiliated technical universities to improve their policy, academic and management practices. The project will be implemented in alignment with the 12th Five Year Plan (2012-17), based on faster sustainable, and inclusive growth. It emphasizes increasing the supply of highly skilled workers to drive the economy as well as helping low-income states catch up with their more advanced neighbours. BVM is one of 190 government and government-funded institutions nationwide selected for TEQIP-III and the only institute in Gujarat state to have this honour.

❖ About the program

The program is intended to impart participant training in the area of recent advances & practices in the power and energy sectors. Power generation, transmission & distribution industry and process industries need a large amount of motive power for different applications. These drives need to be rugged and energy efficient to provide the needed reliability of service. Power transformers and induction motors typically meet the heavy-duty needs of the industry in a very effective manner. To ensure that these machines operate effectively, the health of the machines needs to be verified through condition monitoring techniques to avoid interruptions. The need for energy use in an effective manner for industries by Energy Management, Automation and IoT applications will discuss.

❖ Course Content

- Technological developments in industries.
- Fault detection techniques of machines.
- Practices in energy management with industrial automation.
- The current scenario in a renewable energy system.
- IoT for Industry.
- Industrial visit.

❖ Program Outcomes

At the end of the course, the participants are able to understand fault diagnostic techniques in machines. Participants are explored in energy management with industrial automation in different utilities of industrial, commercial and residential sectors. Also, get experience in IoT applications for industry.

❖ Press Note in Sardar Gurjari Date: 15.12.2019

જિરલા વિશ્વકર્મા મહાવિદ્યાલય ખાતે શોર્ટ ટર્મ ટ્રેનીંગ પ્રોગ્રામનો પ્રારંભ



આખંડ, તા. ૧૦ ચારૂતર વિદ્યામંડળ સંચાલિત જિરલા વિશ્વકર્મા મહાવિદ્યાલય તથા ગવર્નમેન્ટ એન્જિનિયરીંગ કોલેજ (ભાંસવાડા)ના ઈલેક્ટ્રીકલ એન્જિનિયરીંગ ડીપાર્ટમેન્ટના સંયુક્ત ઉપક્રમે TEQIP-III અંતર્ગત રિસન્ટ એડવાન્સિસ એન્ડ પ્રોગ્રેસીસ ઈન પાવર એન્ડ એનર્જી સેક્ટર્સ વિષય પર	શોર્ટર્મ ટ્રેનીંગ પ્રોગ્રામનો પ્રારંભ કરવામાં આવ્યો હતો. જેમાં મુખ્ય અતિથિ તરીકે ચારૂતર વિદ્યામંડળના માનદ મંત્રી ડૉ. એસ. જી. પટેલ, ડૉ. ઈન્દ્રજીત એન. પટેલ (પ્રિન્સીપાલ, બીવીએમ), ડૉ. સતીષ ચેતવાની (આસી. ડિરેક્ટર એન્ડ હેડ આરએન્ડડી, વડોદરા), ડૉ. એન. જી. મિશ્રા (હેડ, ઈલેક્ટ્રીકલ એન્જિ., ડૉ. એસ.	ડૉ. ધીમાન (TEQIP-III, કોઈનિટર), વિભાગીય વડાઓ ઉપસ્થિત રહ્યા હતા. સંચાલન પ્રો. ઘરિતા પટેલે કર્ચું હતું. ડૉ. અક્ષય પંડ્યાએ આભાર વ્યક્ત કર્યો હતો. કાર્યક્રમને સફળ બનાવવા માટે પ્રો. યોગેશ પ્રજ્ઞપતિ, પ્રો. એ. એ. શંખ તથા અન્ય અધ્યાપકોએ કામગીરી હાથ ધરી હતી.
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Schedule

TEQIP III Sponsored One Week STTP on "RECENT ADVANCES AND PRACTICES IN POWER & ENERGY SECTORS" (9th December - 14th December 2019) Electrical Engineering Department, BVM Engineering College

Day 1 : 09/12/2019 – Monday						
9.00 - 10.00	10.00 – 10:30	10:30 – 12:30	12:30 - 13:30	13.30 – 15.30	15.30 – 15:45	15:45 – 18:00
Registration & High Tea	Inauguration	“Fault Detection methods of IM ” Dr. Satish H. Chetwani Erda	Lunch Break	“Hands on practice on PLC/SCAD A” Hi-Mak Controls Vadodara,	Tea	“Hands on practice on PLC/SCADA” Hi-Mak Controls Vadodara
Day 2 : 10/12/2019 – Tuesday						
9.30 – 10.00	10.00 – 12.00	12.00 – 12:30	12:30 - 15:30	15:30 to 18:00		
High Tea	“IOT” Dr. V. N. Kamat BML V U Nagar	Lunch	Live demonstration on “Design, Assembly and Testing of Motors” at Rotomag Motors & Controls PVT Ltd., Napa (Industrial visit)	Live demonstration on “Design, Assembly and Testing of Transformers” at Atlanta Electricals Pvt. Ltd. V U NAGAR (Industrial visit)		
Day 3 : 11/12/2019 – Wednesday						
9.30 – 10.00	10.00 – 12.00	12.00 – 12:30	12:30 - 15:30	15:30 to 18:00		
High Tea	“Recent trends in communication utility GETCO” Er. Janak Chandegara	Lunch	Live demonstration on “Solar-Biogas Refrigeration System for Transient Storage of Horticulture Produce” at Anand Agriculture University, Anand (Field Visit)	Live demonstration on “Solar Thermal Field, Solar PV Field & Low Cost Fixed Dome Biogas Plant” at Anand Agriculture University, Anand (Field Visit)		
Day 4 : 12/12/2019 – Thursday						
9.30 – 10.00	10.00 – 12.00	12.00 – 13:00	13:00 – 15:00	15:00 –15:15	15.15 – 18:00	
High Tea	“Solar Energy Systems and Application” Radhika Savalia GERMI	Lunch	Recent Trends in Power System Protection Er. Kalpesh B. Tank GETCO, Karamsad	Tea	Live demonstration on “Power System Protection” at Laboratory of BVM Er. Kalpesh B. Tank GETCO, Karamsad	
Day 5 : 13/12/2019 – Friday						
8.00 – 9.00	10.00 – 12.00	12.00 – 13:00	13:00 – 15:00	15:00 –15:15	15.15 – 18:00	
High Tea	Live demonstration on “Applications of Renewable Energy“ at SPRERI (Field Visit)	Lunch	Recent Trends in Electrical Vehicles Dr. Jignesh Makwana	Tea	Recent Trends in Electrical Vehicles Dr. Jignesh Makwana	
Day 6 : 14/12/2019 – Saturday						
9.30 – 10.00	10.00 – 12.00	12.00 – 13:00	13:00 – 14:00			
High Tea	“Fault Detection of Transformer by SFRA” Dr. Akshay A. Pandva BVM	Lunch	Feedback & Valedictory Function			

BVM Engineering College
(An Autonomous Institute)
Electrical Engineering Department
RECENT ADVANCES AND PRACTICES IN POWER & ENERGY SECTORS
9th to 14th December 2019

INAUGURATION PROGRAM
(10.30 am LRUC, BVM)

1. INVOCATION

2. WELCOME AND About STTP

Dr N. G. Mishra

3. PRINCIPLE'S REMARKS

Dr Indrajit Patel

4. CHIEF GUEST'S REMARKS

Dr. S. G. Patel

5. VOTE OF THANKS

Dr. A A Pandya

Program will be followed by keynote Address by Dr. Satish Chetwani, Head R&D Switchgear and Short circuit labs, ERDA, Vadodara

Photographs of the Short Term Training Program

Inauguration



The session started from the Key Note Speech on “Fault Detection Methods of Induction Motors” by Dr. Satish H. Chetwani, Head R&D, Switchgear and Short, ERDA.



“Hands on practice on PLC/SCADA” has been conducted by Er. Kiran Badwaik, Hi-Mak Controls, Vadodara in the afternoon sessions.



Session on “IOT” by Dr. V. N. Kamat, Baroda Meters Ltd., V. U. Nagar has been conducted with practical demonstration.



Industrial Visit at Rotomag Motors & Controls Pvt. Ltd., Napa plant has been planned with Live demonstration on "Design, Assembly & Testing of Motors".



Industrial Visit at Atlanta Electricals Pvt. Ltd., V. U. Nagar plant has been completed with Live demonstration on "Design, Assembly & Testing of Transformer".



Industrial visit with practical demonstration for VAM system and biogas plant installed at food and processing unit has been planned to understand its application



Expert speak on Electrical Vehicle industries.



Glimpse of the Valedictory Session

