ShramSadhana Bombay Trust's

COLLEGE OF ENGINEERING AND TECHNOLOGY

Bambhori, Post Box No. 94, Jalgaon-425001 (M.S.)

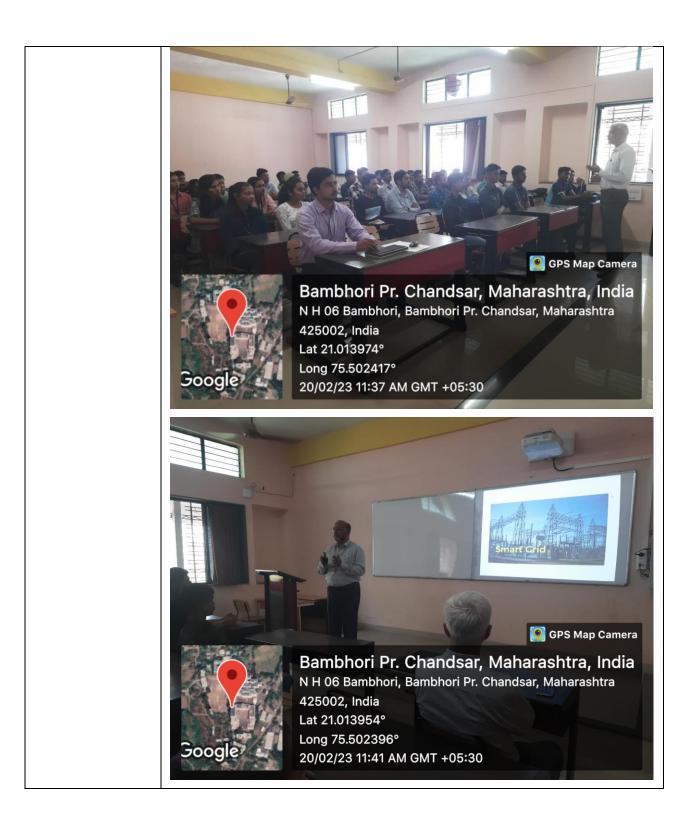
Department of Electrical Engineering

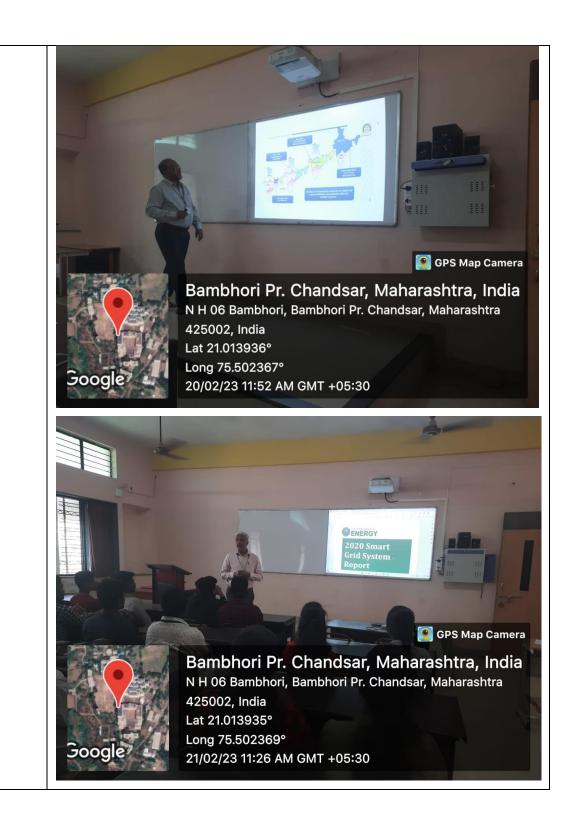
Brief Report on

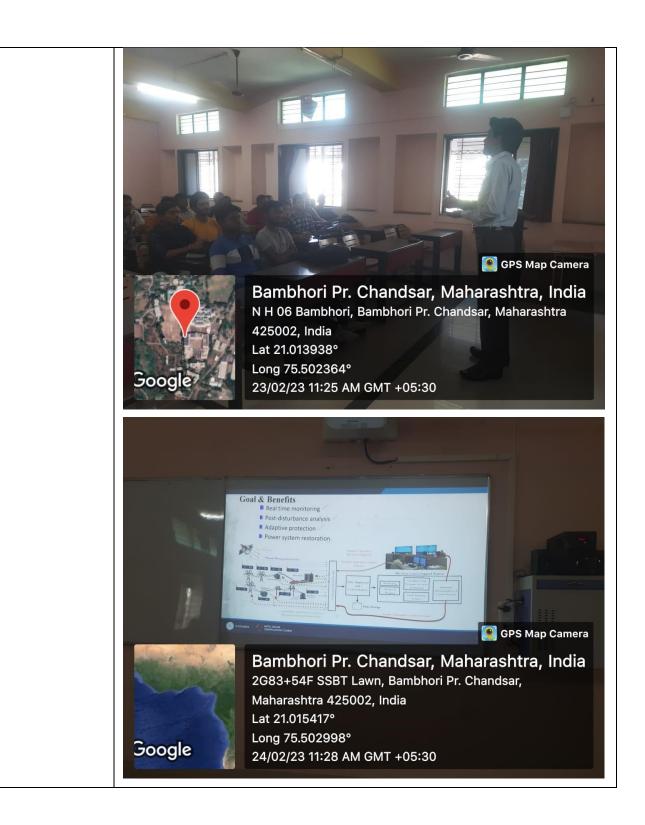
Add-On Course on "Smart Grid"

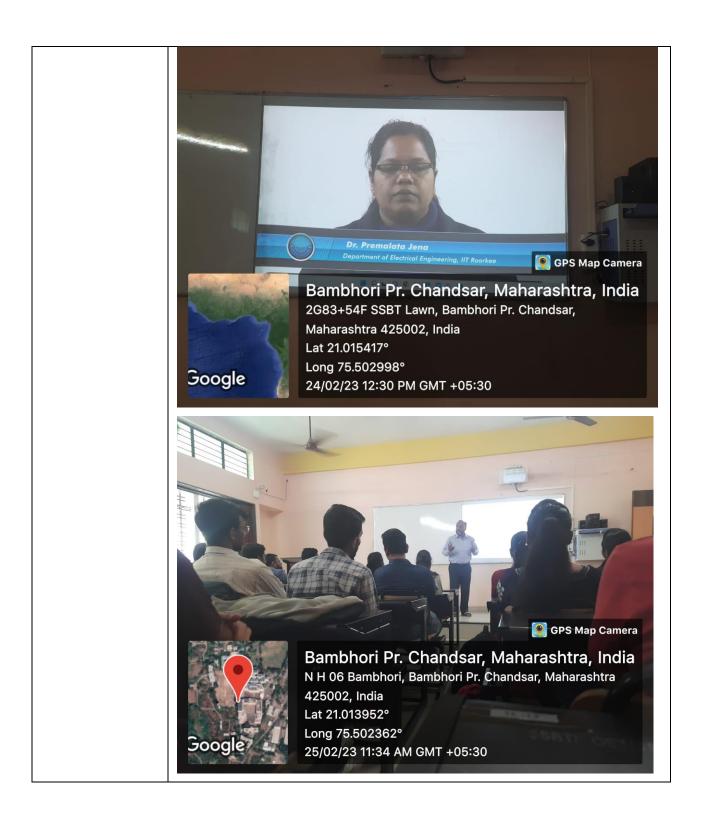
Title of Course	Add-On Course on "Smart Grid"	
Date and Venue/	20thth to 25thFeb 2023 (30 Hours Duration)	
Location	Department of Electrical Engineering	
Aim/Purpose	The purpose of Add-On Course to provide career oriented course and bridge the gap curriculum. The aim of the program is to disseminate knowledge about Smart Electric Grid and its future scope. Economical and Environment impact of Smart Electric Grid.	
Objectives	To provide students with a working knowledge of fundamentals and development of Smart Electric Grid, from the basic concepts of power systems.	
Participants Profile	This course is intended for graduate students but it is also open to senior undergraduate students. There is no official pre-requisite at the time of enrolment. However, basic knowledge of power systems, basic knowledge of computer and communications networks, and some background in probability and random variables, linear algebra, and convex optimization will be helpful.	
Participants	66	
Description about the program	This course mainly focuses on background and fundamental building blocks of smart grid with stringent emphasis on practical applications in the existing power system network. This course provides overview of smart grid and its potential in deferent type of power sectors s u c h as power generation, transmission a n d distribution i n Metro, Urban/Semi urban and remote locations of India. This also emphasizes on renewable energy source integration in present grids as well as in micro and nano grids as part of the course and explores its issues in operation, analysis, management, control, protection and monitoring. In addition to it, this further provides detailed utility level analysis in terms of energy management, network analysis and operation of renewable based smart grids.	

After successful completion of this course the student will be able to: 1. Understand the fundamental element of the smart grid and power grid. 2. Understand different communication technologies used in smart grids. 3. Get accustomed with the fundamentals of SCADA and IED **Outcome** 4. Understand the Importance of Automation in Substation and substation Automation. 5. Understand the Energy management systems in era of smart grid. 6. Understand the distribution automation for smart grid development. Introduction to Smart Grid I & Il, Architecture of Smart Grid System, Standards for Smart Grid System Elements and Technologies of Smart Grid System, Elements and Technologies of Smart Grid System-II Distributed Generation Resources-I, ll, lll & IV, Wide Area Monitoring **Contents** Systems-I & II, Phasor Estimation-I &I I, Digital relays for Smart Grid Protection, Islanding Detection Techniques-I, II, III & IV, Smart Grid Protection-I. **Add on Course Smart Grid** 20th - 25th Feb. 2023 Organized by **Photos Department of Electrical Engineering** SSBT's College of Engineering & Technology, Bambho GPS Map Camera Jalgaon, Maharashtra Bambhori Pr. Chandsar, Maharashtra, India N H 06 Bambhori, Bambhori Pr. Chandsar, Maharashtra 425002, India Lat 21.013946° Long 75.502382° 20/02/23 11:05 AM GMT +05:30











Permission and	Annexure A
Contents	
Notice	Annexure B (Notice Brochure and Course Schedule)
Broacher	Annexure C
Schedule	Annexure D
Attendance	Annexure E
Sheet	
Certificate	Annexure F
Feedback	Annexure G

Mr. M. Mujtahid Ansari

Coordinator

Mr. Vijay S. Pawar

Head



Department of Electrical Engineering

SSBT's College of Engineering & Technology, Bambhori, Post Box No. 9, Jalgaon - 425001 (MS)



Est. of Dept: 1999

Est:1983

Web: http://www.sscoetjalgaon.ac.in

Email: sscoetjal@gmail.com

Email:deptdelect@gmail.com Ph. No..:(0257) 2258391-95, Ext. No. : 331 Fax No.: (0257) 2258392

Date: 14/02/2023

Ref: No.: COET/Electrical/22-23/

To,

The Principal

SSBT's College of Engineering and Technology,

Bambhori, Jalgaon.

Subject: Permission to conduct Add-On Course on "Smart Grid".

Respected Sir,

Add-on courses are skill enhancing program that helps students for job, selfemployment and empowerment. Hence, our department is interested to conduct Add-on Course on "Smart Grid" during 20^{th} to 25^{th} Feb.2023 This course will be conducted for 30hours duration.

Hence I request you to permit us to conduct Add-on Course.

Thanking you

Yours faithfully

Head of Department

Electrical Engineering Departmen SSBT's College of Engg. & Tech., Jalgne

Enclose: Course Detail

Mission

To provide student-centered conducive environment for preparing knowledgeable, competent and value added electrical engineers.

To emerge as the leading Electrical Engineering department for inclusive development of students.



Department of Electrical Engineering

SSBT's College of Engineering & Technology, Bambhori, Post Box No. 9, Jalgaon - 425001 (MS)



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Fax No.: (0257) 2258392

Ref: No.: COET/Electrical/22-23/

Date: 14 /02/2023

Add-On Course on "Smart Grid"

Objectives

: To provide students with a working knowledge of fundamentals and development of Smart Electric Grid, from the basic concepts of power

Course Description: This course mainly focuses on background and fundamental building blocks of smart grid with stringent emphasis on practical applications in the existing power system network. This course provides overview of smart grid and its potential in deferent type of power sectors s u c h as power generation, transmission a n d distribution i n Metro, Urban/Semi urban and remote locations of India. This also emphasizes on renewable energy source integration in present grids as well as in micro and nano grids as part of the course and explores its issues in operation, analysis, management, control, protection and monitoring.

Course Content:

Introduction to Smart Grid l& ll, Architecture of Smart Grid System, Standards for Smart Grid System Elements and Technologies of Smart Grid System, Elements and Technologies of Smart Grid System-II Distributed Generation Resources-I, ll, lll & IV ,Wide Area Monitoring Systems-I & ll, Phasor Estimation-I & ll, Digital relays for Smart Grid Protection , Islanding Detection Techniques-I, ll, lll & IV, Smart Grid Protection-I.

Outcome:

After successful completion of this course the student will be able to:

- 1.Understand the fundamental element of the smart grid and power grid.
- 2. Understand different communication technologies used in smart grids.
- 3.Get accustomed with the fundamentals of SCADA and IED
- 4.Understand the Importance of Automation in Substation and substation Automation.
- 5. Understand the Energy management systems in era of smart grid.
- 6. Understand the distribution automation for smart grid development.

Coordinator Appointed: M. Mujtahid Ansari, Assistant Professor

Head of Department

Electrical Engineering Departmer

Mission

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Date: 14 /02/2023

Notice

All the students of TE and BE are informed that a Add-On Course on "Smart Grid" is scheduled from 20th to 25th Feb., 2023. The course is mandatory to all and attendance will be observed in all sessions.

Head of Department

Electrical Engineering Department SSBT's College of Engg. & Tech., Julguo



Shrama Sadhana Bombay Trust's

COLLEGE OF ENGINEERING AND TECHNOLOGY-BAMBHORI, POST BOX NO. 94, JALGAON – 425001 (M.S.)

Included under section 2 (f) & 12 (B) of the UGC Act, 1956 Grade A (3.14) NAAC Accredited

> Add On Course On

Smart Grid

20th to 25th Feb 2023

ABOUT INSTITUTE

Shram Sadhana Bombay Trust runs the COLLEGE of ENGINEERING & TECHNOLOGY at Bambhori, Jalgaon, which is the one of the important industrial town & district headquarters of Maharashtra State. SSBT COET campus is lush green spread over 25 acres area and located on the bank of River Girna. The campus is well equipped with important amenities such as classrooms, drawing halls, laboratories, seminar halls, library, computer center, workshop, hostels, canteens, faculty quarters and indoor as well as outdoor sports facilities etc. The College was accredited by National Board of Accreditation, New Delhi for three times and presently NAAC accredited with A grade.

Under Graduate (UG) courses:

Civil Engineering
Chemical Engineering
Computer Engineering
Electrical Engineering
Electronics & Tele. Engineering
Mechanical Engineering

Ph.D. Programmes:

Bio-Technology
Civil Engineering
Chemical Engineering
Computer Engineering
Electrical Engineering
Electronics & Tele. Engineering
Mechanical Engineering

ABOUT ELECTRICAL DEPARTMENT

Department of Electrical Engineering is established in year 1999 with an intake of 60. The department was accredited for 5 years from 2008 to 2013 by N.B.A., New Delhi. The department has maintained the track of excellent results by securing Ist Rank and Gold Medal at university level examination. The department has ten well equipped laboratories for UG and two labs for PG.

The department has signed MoU with National Infotech, Suart and kWatt Solution Pvt. Ltd. IIT Bombay to enhance the quality based educational experience for students, researchers as well as faculties. Hands-on-training programs are organizes regularly. Department have recognized research laboratory under Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, Maharashtra. Research scholars are working in the field of power quality, power electronics and renewable energy.

PRINCIPAL

Dr. G. K. Patnaik

CONVENERS

Mr. Vijay S. Pawar Head, Electrical Engineering Department

ORGANISING COMMITTEE

Mr. M. Mujtahid Ansari Coordinator)
Mr. S. M. Shembekar
Ms. Abhilasha Salunkhe

COURSE DESCRIPTION

This course mainly focuses on background and fundamental building blocks of smart grid with stringent emphasis on practical applications in the existing power system network. This course provides overview of smart grid and its potential in deferent type of power sectors s u c h as power generation, transmission a n d distribution i n Metro, Urban/Semi urban and remote locations of India.

COURSE CONTENT

Introduction to Smart Grid l& ll, Architecture of Smart Grid System, Standards for Smart Grid System Elements and Technologies of Smart Grid System, Elements and Technologies of Smart Grid System-II Distributed Generation Resources-I, ll, lll & lV, Wide Area Monitoring Systems-I & ll, Phasor Estimation-I & ll, Digital relays for Smart Grid Protection, Islanding Detection Techniques-I, ll, lll & lV, Smart Grid Protection-I.

COURSE OUTCOME

After successful completion of this course the student will be able to:

- 1. Understand the fundamental element of the smart grid and power grid.
- Understand different communication technologies used in smart grids.
- Get accustomed with the fundamentals of SCADA and IED
- 4. Understand the Importance of Automation in Substation and substation Automation

Add On Course On

"Smart Grid"

20th to 25th Feb 2023



Organized By

Department of Electrical Engineering







Shrama Sadhana Bombay Trust's
COLLEGE OF ENGINEERING AND TECHNOLOGY
BAMBHORI, POST BOX NO. 94, JALGAON – 425001 (M.S.)

Office: 0257-2258391/93 Fax: 0257-2258392

Website: - www.sscoetjalgaon.ac.in

SSBT's College of Engineering and Technology, Jalgaon, Maharashtra Department of Electrical Engineering

Add on Course on "Smart Grid" from 20th Feb to 25th Feb 2023.

Program Schedule

Date	20/02/2023	21/02/2023	22/02/2023	23/02/2023	24/02/2023
Session 1 11:00- 12:00	Inauguration (10:30- 11:00) Introduction to Smart Grid (Mr. M M Ansari)	Smart Grid Technology (Mr. V. S Pawar)	Challenges in Protec- tion for Smart Grid (Mr. S. M Shembekar)	Application of Microprocessor and controller in Smart Grid (Ms. Abhilasha Salunkhe)	Future of Smart Grid (Mr. N S Mahajan, RCPIT)
Session 2 12:00- 13:00	Introduction to Smart Grid- I (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Roor- kee)	Standards for smart grid system (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Ro- orkee)	Distributed Generation Resources – I (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Ro- orkee)	Wide Area Monitoring System – I (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Roor- kee)	Digital Relays for Smart Grid Protection (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Roor- kee)
13:00- 13:45	Break	Break	Break	Break	Break
Session 3 13:45- 14:45	Introduction to Smart Grid- II (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Roor- kee)	Elements and Technolo- gies of smart grid system (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Ro- orkee)	Distributed Generation Resources – II (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena, IIT Roorkee)	Wide Area Monitoring System – I (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Roor- kee)	Islanding Detection Tech- niques – I (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Roor- kee)
Session 4 14:45- 15:45	Introduction to Smart Grid- II (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena, IIT Roor- kee)	Elements and Technologies of smart grid system – II (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena, IIT Roorkee)	Distributed Generation Resources – II (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Roorkee)	Wide Area Monitoring System – II (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Roor- kee)	Islanding Detection Techniques – I (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Roorkee)
Session 5 15:45- 17:45	Architecture of smart grid system (NPTEL, Prof. N.P. Padhy & Prof. Pre- malata Jena , IIT Roorkee)	Elements and Tech- nologies of smart grid system – II (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Roorkee)	Distributed Generation Resources – III (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Roorkee)	Wide Area Monitoring System – II (NPTEL, Prof. N.P. Padhy & Prof. Premalata Jena , IIT Ro- orkee)	Quiz and Valedictory Function

Shram Sadhana Bombay Trust's

COLLEGE OF ENGINEERING AND TECHNOLOGY

Bambhori, Post Box No. 94, Jalgaon-425001 (M.S.)

Attendance

AY 2022-23 Term-II

Title of the Program: Add-On Course on "Smart Grid"

Duration

: 20th to 25th Feb 2023 (30 Hours Duration)

List of Students' Enrolled:

Date: 22/02/2023

2 29 TF Siddhesh Hitandra Rame Odose 3 13 TF Schlorsh Hitandra Rame Odose 4 05 TF Nigad AShak Chaudhamy AR 5 12 TE Pranav Raichdra Jadhav 6 28 TF Kiran Shakhwant Rame RSAN 7 27 TF Sujat provenshoor patil Fazz 8 26 TF Shitan Rally Pail OBBAH 9 36 TE Syesh Gajaman Therokar 8 11 17 TF Jakesh Maharu Magart Au 11 17 TF Jakesh Maharu Magart Au 12 42 BE Somit Sandip Patil Bally 13 23 Bi Tejas Nivsyth Mahajan Thail 14 45 13F Paralle Raman Barae 14 45 13F Paralle Raman Barae 15 05 BF Pratite Rivan Barae 16 14 BF Prajidat Preshpande 17 05 BF Pratite Rivan Barae 18 08 BF Halshal Antil Bhordee 19 40 BF Somir Chetan patil 20 15 BE Niuhii Narendra Devare 21 57 TF Falguni Vijay Wantheade 22 22 TE Pooa iltendra Patil 23 11 TE Mangeshi Ravindra Jadhav 24 19 TE Tanvi Sukdev mali 26 48 BE Mujuei R. Patil 27 18 TE Poonama Sudhakar dhangar Product 29 37 BF Nakul G. Patil 30 23 TE Pramad S. Patil 30 23 TE Pramad S. Patil 31 22 BE Bhubham Lakhichand Mahajan Andier 32 37 BF Pramad S. Patil 31 22 BE Bhubham Lakhichand Mahajan Mahajan 32 47 BF Deven Sharad Rape BBRAE	Sr. No.	Roll No	Class	Name of Students	Sign
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Coordinator 22023

Electrical EHeadering Department SSBT's College of Engg. & Tech., Julguon

Shram Sadhana Bombay Trust's

COLLEGE OF ENGINEERING AND TECHNOLOGY

Bambhori, Post Box No. 94, Jalgaon-425001 (M.S.)

Attendance

AY 2022-23 Term-II Title of the Program: Add-On Course on "Smart Grid"

Duration

: 20^{th} to 25^{th} Feb 2023 (30 Hours Duration)

List of Students' Enrolled: Date: 22/02/2023

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22/02/2023

Electrical Engineering Department Finds & Tech., Internation



SSBT's College of Engineering & Technology,

Bambhori, Jalgaon - 425001

Included under section 2(f) and 12(B) of the UGC Act, 1956

Grade A (3.14) NAAC Re-Accredited 2nd Cycle





Add-On Course on "Smart Grid"

Certificate of Participation

This is to certify that Mr. / Ms. Sneha Jitendra Jadhav of Final Year has successfully attended One Week (30 hours) Add-On Course on "Smart Grid" held during 20th to 25th Feb, 2023 organized by Department of Electrical Engineering, SSBT's College of Engineering & Technology, Bambhori, Jalgoan (MS), India.

Mr. M. Mujtahid Ansari

Coordinator

Electrical Deptt., SSBT's COET, Jalgaon

Mr. V. S. Pawar

Convener

Electrical Deptt., SSBT's COET,

Prof. (Dr.) G. K. Patnaik

Principal, SSBT's COET, Jalgaon

Feedback Form for Add-On Course on "Smart Grid" 20th th to 25th Feb 2023 (30 Hours Duration)

