

**Academic Year**  
**2016-17**

## International Conference

On  
**Global Trends in Engineering, Technology  
and Management**  
(ICGTETM 2016)

<http://icgtetm2016.sscoetjalgaon.ac.in/>

January 04 - 06, 2016



Shram Sadhana Bombay Trust's  
COLLEGE OF ENGINEERING  
&  
TECHNOLOGY  
(With NBA Accredited Programs)  
Bambhori, Post Box No. 94,  
Jalgaon – 425001, Maharashtra, India  
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E-mail: [sscoetjal@gmail.com](mailto:sscoetjal@gmail.com)  
Website: [www.sscoetjalgaon.ac.in](http://www.sscoetjalgaon.ac.in)

### About Us:

The college of Engineering and Technology governed by Shram Sadhana Bombay Trust is established in 1983 by the auspicious hands of Smt Pratibha Devisingh Patil, the former President of India. The college buildings are spread over 25 acres of magnificent and eco-friendly beautiful pollution free campus. The college offers EIGHT undergraduate courses, FIVE Post Graduate Courses and Doctoral Courses in Engineering along with MBA.

The SSBT's COET is a college with long tradition of societal development with technical education, research, consultancy and voluntary services. It has in its honor several certifications including:

- ISO 9001:2008 valid certification for Quality Management Services.
- Approval by All India Council of Technical Education, New Delhi.
- "Excellence Award" from Indo Global Chambers of Commerce, Industries and Agriculture, Pune.
- Listing under section 2(f) and 12(B) of UGC act 1956.
- NBA Accredited Programmes.

### Conference Theme: Navigating the Future

Change is the order of the day. Change is dynamic and perpetual. The rate of changes got increased astonishingly in the twentieth century. The quantum of technological changes that took place since the beginning of the civilization till nineteenth century is doubled in twentieth century. The midpoint of the technological development in the twentieth century is considered to be the decade of nineties. The midpoint of the entire history of technological advancement is considered to be just January 2015! This dash of developments has impacts on our life style, environment, and resources. The critical resource depletion and severe environmental degradation have posed threat to the very existence of mankind. Development is inevitable. Yet, today the human race needs a development which is sustainable. A great challenge then present race of scholars are facing is to maintain the Earth as a livable planet. It requires integration of thoughts, ideas, views and opinions of intellectuals of

diversified disciplines. The conference provides an opportunity for integration through communications, interactions, and sharing. The proposed conference on the theme "Global Trends in Engineering Technology and Management" is an attempt to provide a forum for such integration. It is an endeavor to bring the engineers, technocrats, managers and researchers of vivid faculties to come at a common platform to exchange their expertise, express their ideas, to share their knowledge and experiences, and to evolve the track for navigating the research. The present conference will add impulse to perpetual voyage of development and will evolve its future track to lead the human progression on this livable planet, the Earth.

The conference will be conducted in FOUR parallel tracks.

- Track 1: Computer Engineering, Information Technology and Management
- Track 2: Electronics and Telecommunication Engineering and Electrical Engineering
- Track 3: Mechanical Engineering and Civil Engineering
- Track 4: Biotech Engineering, Chemical Engineering and Applied Science

### Submission Guidelines:

Prospective authors are invited to submit full papers electronically.

All submissions should be written in English. Submissions must be original, unpublished work containing new and interesting results that demonstrate current research in the respective areas.

Papers are to be submitted through EASYCHAIR conference management system using the link (<https://easychair.org/conferences/?conf=icgtetm2016>). All accepted and presented papers will be published in **International Journal of Engineering Trends and Technology**, with ISSN: 2231-5381, SJIF: 1.795(2011-2014), with Indexed in good academic databases such as DOAJ etc & Universities libraries such as Harvard, Cornell etc.

At least ONE author of the accepted papers must be registered at the regular rate for the conference.

**Inspiration:** Dr. D. R. Shekhawat  
**Chief Patron:** Shri Raosaheb Shekhawat  
**Patron:** Prof. K. S. Wani, Principal  
**Conveners:** Prof. I.D.Patil

Prof. D. S. Deshmukh

**Organizing Chairs:** Prof. P. J. Shah  
Prof. U. S. Bhadade

**Finance Chairs:** Prof. S.R. Suralkar  
Dr. V. R. Diware

**Conference Management Chairs:**  
Prof. M. Panigrahi  
Dr. V. S. Rana

**Publication Chairs:** Prof. G. K. Patnaik  
Prof. M. Husain

**Advisory Committee:**

- Prof. Michael P. Timko, Director, Echols Scholars Program., University of Virginia, USA.
- Prof. Pandit B. Vidyasagar, Vice-Chancellor, Swami Ramanand Teerth Marathwada University, Nanded, India.
- Prof. Sergio Ballesteros Elizando, Center for Higher and Technical Education, CETYS University, Tijuana, Mexico.
- Prof. Narendra S. Chaudhari, Director, Visvesvaraya National Institute of Technology (VNIT) Nagpur, M.S., India.
- Prof. M N A Hawlader, International Islamic University Malaysia, Kuala Lumpur, Malaysia.
- Prof. K.V. Venkatesh, Professor, Dept of Chemical Engineering, Indian Institute of Technology, Bombay, Powai, Mumbai, India.
- Prof. Ajay K. Dalai, Canada Research Chair in Bio-Energy and Environmentally-Friendly Chemical Processing, University of Saskatchewan, Canada.
- Prof. Raju B. Mankar, Director, L.I.T., RTMNU, Nagpur, Former Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University, Lonere, India.

- Dr. Pankaj Koinkar, 2-1 MinamiJishangima-cho Campus, University of Tokushima, Tokushima, Japan.
- Prof. J.S. Rana, Chairman, Department of Biotechnology, DCR University of Sc. & Tech. Murthal, Sonapat, India.
- Prof. Tanzima Yeasmin, Director, Institute of Biological Sciences, University of Rajshahi, Bangladesh.
- Prof. S.N. Naik, Centre for Rural development and Technology, Indian Institute of Technology, Delhi, India.
- Dr. B.B. Idage, Senior Scientist, NCL, Pune, India.
- Dr. S.S. Thipse, Assistant Director Engine Development Laboratory Automotive Research Association of India (ARAI), Pune, India.
- Prof. Satyendra Mishra, Former Director, UICT, NMU, Jalgaon, M.S. India.
- Prof. K. Sreeramulu, Chairman, Dept. of Biochemistry, Gulbarga University, Gulbarga, Karnataka.
- Prof. Jyotsna Sudhir Meshram, Head, Dept. of Organic Chemistry, School of Chemical Sciences, NMU, Jalgaon, India.
- Prof. V.L. Maheshwari, Director, School of Life Sciences, NMU, Jalgaon.
- Prof. Pramod W. Ramteke, Dean, Post Graduate Studies, Sam Higginbottom Institute of Agriculture, Technology & Science, Allahabad, India.
- Prof. Parimal A. Parikh S.V. National Institute of Technology, Surat, India.
- Prof. S. P. Shekhawat, SSBT's College of Engineering & Technology, Jalgaon, India.
- Dr. Sudhir Kumar Sharma, Vice President & Head, Panacea Biotech Ltd. Mohali, Punjab India.

- Dr. K.B. Patil, Vice President, Tissue Culture Division, Jain Irrigation System Ltd, Jalgaon, India.
- Dr. R. B. Chaudhari, Chairman & Managing Director, Kiran Machine Tools, Jalgaon, M.S. India.
- Dr. Nilesh Teli, Managing Director, Naturally Yours Biotech, Jalgaon, M.S. India.

**Important Dates:**

Last date for paper submission: **November 25, 2015**

Acceptance notification: **December 5, 2015**

Camera ready copy submission: **December 15, 2015**

Registration Fees:

Indian first author: 2500 INR

Indian Participant/Co-author: 1000 INR  
(Excluding Kit)

Foreign delegates: 100 USD

Foreign delegates Co-author: 40 USD  
(Excluding Kit)

**Contact Persons:**

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**Inaugural Function of International Conference on  
Global Trends in Engineering, Technology and  
Management (ICGTETM 2016)**



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**Key note Speech by  
Chief Guest**

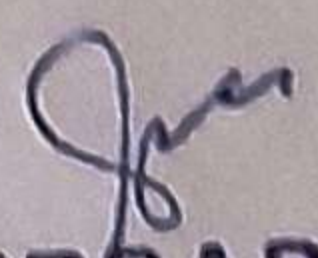
**Prof. Michael Timko** (Professor of Biology, Director of the Echols Scholars Programme,  
University of Virginia, Charlottesville, USA.  
At Inaugural Function of ICGTETM 2016



## **Participants in Conference**



SSBT's College of Engineering & Technology, Bambhori, Jalgaon is organizing a One Day National Workshop on 'Moodle: E learning and E content Management System for Modern Educations System' on March 25<sup>TH</sup>, 2017 In collaboration with NMU LIS Study Circle, Jalgaon. The main objective of the workshop is to increase awareness and provide library services using Moodle among LIS professionals. In this workshop two resource person are share their experience and view about MOODLE with practical base 1) **Dr. Rekha Sharma**, Associate Professor, UGC-Human Resource Development Centre, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur and 2) **Prof. G.K. Patnaik**, Head, Department of Computer Engineering, SSBT's College of Engineering and Technology, Bambhori, Jalgaon. The Total 59 no of participant are registered in the workshop. The convener of workshop **Dr. Anil Chikate**, I/C Librarian, North Maharashtra University, Jalgaon & President, Library and Information Sci. Study Circle (NMU), Jalgaon, organizing secretary of the workshop **Sh. Sudhir S. Patil** Librarian SSBT College of Engineering & Technology, Bambhori. Jalgaon and Co- Organizing Secretary **Sh. Rahul B Khandare** Librarian, S.V.P. Arts and Science College, Ainpur & Secretary, Lib. and Info. Sci. Study Circle (NMU), Jalgaon

  
LIBRARIAN  
College of Engg. & Tech.  
Bambhori



## Report on One day workshop on Moodle (LMS) Administration

Level:- College Level

Category: - Faculty Development Program.

Date:- 22/02/2017 (one day )

Number of faculty participation -21

Mode:- Offline

Organizer:- Computer Engineering Department, SSBT's College of Engineering and Technology, Bambhori/Jalgaon.

Resource Persons :-

1. Mr. Manoj EknathPatil, Associate Professor, SSBT's COET, Bambhori
2. Miss. Archana R. Shinde, Assistant Professor, SSBT's COET, Bambhori

Objective:

To train the Moodle coordinators of all departments for Moodle administration.

Report:-

Department of Computer Engineering has arranged One day workshop on Moodle Administration on 22/2/2017. The workshop was conducted to make the Moodle coordinators of all departments familiar with the administration functionalities of Moodle LMS. 21 faculty members of our institute attended this workshop. During this workshop following points are covered along with the practice session.

- 1) Administrative login
  - a. Privileges and rights
- 2) User Creation
  - a. Individual User Creation
  - b. Bulk User Uploading
  - c. Cohort Creation/ Management
- 3) Course Creation / Management
  - a. User Allocation
  - b. Cohort Allocation
- 4) Attendance
  - a. Adding Session / Multiple Sessions
  - b. Filling Attendance
  - c. Downloading the Report in Excel
- 5) Assignment
  - a. Uploading the Assignment
  - b. Grading the Assignment
- 6) ISE Marks Uploading
- 7) Quiz
  - a. Uploading the Question Bank
  - b. Creation of Quiz
  - c. Conduction of Quiz

Outcome:-

Faculty members attended the workshop enthusiastically and practice the things during workshop. Now they are able to do the Moodle Administration at department level.



Dr. Manoj Eknath Patil  
Workshop Co-ordinator



**6th International Conference  
on  
Global trends in Signal Processing, Information Computing & Communication  
ICSPICC IEEE Conference 2016  
22nd to 24th December 2016**

Department of Information Technology with Department of Electronics & Telecommunication organized International Conference on Global trends in Signal Processing, Information Computing & Communication 2016 (ICSPICC) IEEE Conference from 22nd to 24th December 2016. This conference was a golden platform for all the aspirants to share their innovative ideas & related research work in front of the Global fraternity. ICSPICC provided a dynamic platform for all the stakeholders to cherish their innovative ideas with emphasis on fundamental and applied mathematics and maintain a logical reasoning that would help in converting systems logic and algorithm. ICSPICC IEEE Conference was inaugurated by the Auspicious hands of Dr. P. P. Patil, Vice Chancellor at North Maharashtra University, Jalgaon. Dr. Sartaj Sahani , Dr. K. S. Wani, Dr. S. P. Shekhawat, Dr. S. R. Suralkar, Dr. U. S. Bhadade Distinguished Professor of Computer and Information Sciences and Engineering at the University of Florida was Key note Speaker for the same. During his speech he focused on latest trends in Sequential and parallel data structures and algorithms, Scheduling, Optimization, Computational geometry. In the conference total 95 papers in 16 Sessions and 31 posters in 2 sessions were presented on 22nd and 23rd December 2016. and on 24th December 2016 participants enjoyed the world famous Ajanta Caves. Dr. U.S. Bhadade, Professor & Head, Information Technology and Dr. S. R. Suralkar, Professor & Head , Electronics & Telecommunication Engineering were Conference Chair and Mr. Aiyappan Pillai Dr. B. Satyanarayana were Representatives from IEEE Bombay Section for successful organization of the Conference. Mr.A.C.Wani had anchored the inaugural ceremony.



Dr. S. R. Suralkar  
Head, Deptt. of E&TC  
SSBT's COET, Jalgaon



Inauguration Ceremony ICSPICC IEEE Conference 2016



Inauguration Ceremony ICSPICC IEEE Conference 2016



Inauguration Ceremony ICSPICC IEEE Conference 2016



Technically Co-sponsored by



## ICSPICC

International Conference on  
Global Trends in Signal Processing,  
Information Computing and Communication  
22-24 December 2016



Jointly organized by  
Department of Electronics & Telecommunication  
&  
Department of Information Technology

Technically Co-sponsored by  
IEEE Bombay Section

**SSBT'S COLLEGE OF ENGINEERING & TECHNOLOGY,**

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<http://ssoetjalgaon.ac.in/>

## Inspiration

Her Excellency **Smt. Pratibha Devisingh Patil**, Former President of India  
Hon. **Shri. D. R. Shekhawat**, An Eminent Educationist & Founder GB Member

## Chief Patron

Hon. **Shri. Raosaheb Shekhawat**, Chairman, Governing Body

## Patron

**Dr. K. S. Wani**, Principal, SSBT's COET, Jalgaon

## Advisory Committee

**Dr. Rajiv Dharaskar**, Former Director, MPGI Integrated Campus Group of Institutes, Nanded

**Dr. B. V. Pawar**, North Maharashtra University, Jalgaon

**Dr. G. K. Kharate**, MCERC, Nasik

**Dr. Rajesh Ingle**, PICT, Pune

**Dr. Manesh B. Kokare**, SGGS Institute of Engineering and Technology, Nanded

**Dr. Rajesh B. Lohani**, Goa College of Engineering

**Prof. A. I. Trivedi**, Retd. Prof., The Maharaja Sayajirao University of Baroda

**Dr. P. M. Patil**, TAE, Pune

**Dr. B. P. Patil**, AIT, Pune

**Dr. A. J. Patil**, SGDCOE, Jalgaon

**Dr. Supriya Kelkar**, Professor, Cummins College of Engineering for Women, Pune

**Dr. Ved Vyas Dwivedi**, Pro VC, Director, C U Shah University, Gujrat

## Organizing Committee

### Conference Chair

**Prof. S. R. Suralkar**, Director, Administration and Head E&TC Engineering

**Prof. U. S. Bhadade**, Head, Information Technology

### Organizing Chair

**Prof. M. Hussain**, Director, Research & Development and Head, Civil Engineering

**Prof. S. P. Shekhawat**, Director, Academics and Head, Mechanical Engineering

### Technical Program Chair

**Prof. I. D. Patil**, Head, Biotechnology

**Prof. P. J. Shah**, Head, Electrical Engineering

### Publication Chair

**Prof. G. K. Patnaik**, Director, Technical and Head, Computer Engineering

**Prof. M. P. Deshmukh**, Professor, E&TC Engineering

### Conference Management Chair

**Prof. V. R. Diware**, Head, Chemical Engineering

**Prof. V. S. Rana**, Head, MBA

**Prof. V. U. Edlabadkar**, Head, Applied Science

## Representatives from IEEE Bombay Section

**Mr. Aiyappan Pillai**

**Dr. B. Satyanarayana**

## Speakers

**Dr. Sartaj Sahani**, Florida University, USA

**Dr. N. S. Chaudhari**, Director, VNIT, Nagpur

**Dr. Bhimsingh**, IIT, Delhi

**Dr. V. Ramarao**, Former Director, NIT, Warangal

## Contact Us

**Prof. Umesh S. Bhadade**

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**Prof. S. R. Suralkar**, email : [shekhar\\_srs@rediffmail.com](mailto:shekhar_srs@rediffmail.com), [suralkar.shekhar@sscoetjalgaon.ac.in](mailto:suralkar.shekhar@sscoetjalgaon.ac.in)



**Shram Sadhana Bombay Trust's**

**COLLEGE OF ENGINEERING & TECHNOLOGY,**

Included Under Section 2(f) & 12(B) of the UGC Act, 1956 ISO 9001:2008 Certified

Post Box No. 94, Bambori, Jalgaon, Maharashtra State, India

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## About Conference

We live in the astonishing world of signals. These signals are creating wonders day by day around us when they are molded, processed and conditioned in certain conditions. The miracles of signal is felt when we start observing the fruit of its benefit in a wide sense applicable to various discipline of Engineering Sciences & Technology. Either Analog or Digital, the signals provide us a vast field to develop our great insight in flourishing some uncovered facts and disclosing it in front of the contemporary world always. Inculcating a challenging future mixed with radiant hopes, we can say our gross existence depends upon harnessing the extreme powers of these signals even beyond our imagination and approach.

Electronics & Telecommunication Engineering has witnessed a drastic change in recent scenario in regards of user demands and interdisciplinary approach of its versatility. The International Conference on Global trends in Signal Processing, Information Computing & Communication 2016 (ICSPICC) is a golden platform for all the aspirants to share their innovative ideas & related research work in front of the Global fraternity. Digital signal processing systems have long enabled interaction of the digital electronics world with the real, analog world. Some of the most valuable applications of Information Computing refer to the advances in IT shift as the invention possibility frontier of the economy, permitting users of IT to invent highly valuable applications. Communication Engineering allows one to think out of the box and create something innovative. ICSPICC provides a dynamic platform for all the stakeholders to cherish their innovative ideas with emphasis on fundamental and applied mathematics and maintain a logical reasoning that would help in converting systems logic and algorithm. It will take place at the North Maharashtra's one of the prestigious engineering institute, Shram Sadhana Bombay Trust's College of Engineering & Technology Bambhori Jalgaon between 22<sup>nd</sup> to 24<sup>th</sup> December 2016.

## About Us

Under the aegis of Shram Sadhana Bombay Trust, the College of Engineering and Technology, Bambhori, Jalgaon was started in 1983 to cater the needs of this region. The institute is approved by AICTE, New Delhi, and three times its programmes are accredited by NBA, New Delhi. It is included under section 2(f) and 12(B) of UGC act 1956 and permanently affiliated to North Maharashtra University, Jalgaon. The quality policy of the institute conforms to ISO 9001:2008. The college has received the award of Best Engineering College of Maharashtra in 2008-09 by Engineering Education Foundation, Pune (M.S.). Recently it has also received Engineering Education Excellence Award 2015 from Indo Global Chamber of Commerce, Pune. The college is also awarded for Brand Excellence in Education by Lokmat in 2015.

## Call for Papers

Full length original research contributions and review articles not exceeding six pages as per the IEEE double column format shall be submitted. The manuscripts should contribute original research ideas, developmental ideas, analysis, findings, results, etc. The manuscript should not have been published in any journals/magazines or conference proceedings and not under review of any of them. Further the manuscript should contain the name of the corresponding author with e-mail id and affiliation of all authors.

Prospective authors are invited to submit their original research work in the following areas but not limited to :

- Signal Processing for Communications & Networking
- Signal Processing for Big Data
- Signal Processing for the Internet of Things
- Spoken Language Processing
- Pervasive Computing
- Computer Vision and Image Analysis
- Broad Band Communication
- Mobile and Optical Communication
- Mobile and Optical Networks
- Network Security
- Embedded Wireless Systems
- Smartgrids
- Soft Computing Techniques in Power Systems
- Power Electronics and Energy Efficient Drives
- Instrumentation and Control
- Expert Systems and Artificial Intelligence Techniques
- Signal Processing Theory & Methods
- Speech Processing
- Grid Computing
- Digital Image and Video Processing
- Data Mining and Cloud Computing
- Computer and Intelligent Communication
- Wireless Communication
- Wireless Sensor Networks
- Advanced VLSI Systems
- Computer Network and Cryptography
- Feedback Control Systems
- Renewable Power Conversion Technologies
- Power Quality Improvement Techniques

### Important Dates

September 30, 2016	Last date for paper submission
October 30, 2016	Acceptance notification (or within one month after submission)
November 10, 2016	Last date for camera ready copy submission
December 22 - 24, 2016	Conference date

### Submission Guidelines

At least one author of accepted paper must register and present the paper at the conference, such papers only will be published in the conference proceedings and will be sent to IEEE Explore.

For format of the paper visit

[http://www.ieee.org/conferences\\_events/conferences/publishing/templates.html](http://www.ieee.org/conferences_events/conferences/publishing/templates.html)

Submit paper through EasyChair submission link:

<https://easychair.org/conferences/?conf=icspic2016>

### Registration Fees

Upto 10<sup>th</sup> Nov. 2016      Late Registration till 10<sup>th</sup> Dec 2016

IEEE Member	3000 Rs.	4500 Rs
Authors from Educational Institute	3500 Rs.	5000 Rs.
Authors from Industry	5000 Rs.	6500 Rs.
Research Scholar and PG student	3000 Rs.	4500 Rs.
Foreign Authors (IEEE Members)	200 \$	250 \$
Foreign Authors (Non-IEEE Members)	250 \$	300 \$
Delegates	2000 Rs	2000 Rs.

For details please visit: <http://icspic2016.ssoetjalgaon.ac.in>



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**Academic Year**  
**2017-18**

SSBT's College of Engineering and Technology, Bambhori, Jalgaon

**International conference on global trends in engineering technology and management, 2017**

**On Dec 22 – 24, 2017**

*Organized by Chemical and Civil Engineering Department*

The conference is organized to provide a forum for exchange of technical expertise and sharing of knowledge to the scientists and engineers working in the diversified fields of engineering and has hosted eminent participants including chief guest and key note speakers from the apex of the academic arena.

Prof V S Sapkal, Former VC of RSTM University kindly served as the Chief Guest. Prof R H Gupta held the President position of the Inaugural Function. Prof Emeritus Yerach Doytsher from Israel Institute of Technology was the keynote speaker. Prof Emeritus S Mishra, North Maharashtra University Jalgaon was the Guest of Honor.

There were 83 papers selected for the conference screened through plagiarism check.

There were four tracks for paper presentations as described below:

Track I: Computers, IT and MBA

Track II: Electricals, Electronics and Telecommunications

Track III: Civil and Mechanical Engineering

Track four: Biotechnology, chemical and Applied science

Their respective session chairs are as follows:

SN	Department	Session Chair's Name	no. of papers
1	Civil Engineering	Er Arvind Kale, NHAJ	25
2	Chemical Engineering	Dr R W Gaikwad, Loni	18
3	Biotechnology	Dr Dastagir, NCL	4
4	MBA	Dr Anil Dongre, NMU	7
5	Mechanical Engineering	Dr A G Thakur, Kopargaon	12
6	Computer Engineering	Dr P R Patil, Shahada	13

The conference has been held successfully as per the schedule.



**Academic Year**  
**2018-19**

**Report of ONE day Workshop on Syllabus Framing  
For SE / TE (Computer / Information Technology)**

Date: January 28<sup>th</sup>, 2019

A workshop on Syllabus Framing for SE (Computer / Information Technology) – As per AICTE Guidelines and TE (Computer / Information Technology), to be effective from 2019 – 20, was held on January 28<sup>th</sup>, 2019 at SSBT's College of Engineering & Technology, Bambhori, Jalgaon.

Following faculty members were present in the workshop.

Sr. No	Name of the Faculty	Name of the College
1	Dr. G.K.PATNAIK	SSBT's COET BAMBHORI, JALGAON
2	HARIOM C. AGNIHOTRI	SGDCOE, JALGAON
3	SUSHANT S. BAHEKAR	SSBT's COET BAMBHORI, JALGAON
4	PRAVIN K. PATIL	SSBT's COET BAMBHORI, JALGAON
5	DINESH D. PURI	SSBT's COET BAMBHORI, JALGAON
6	DIPAK D. BAGE	SSBT's COET BAMBHORI, JALGAON
7	PATEL SUHEL I.	JIIUS JIEMS AKKALKUWA
8	SK. SHRIQUE AHEMAD	JIIUS JIEMS AKKALKUWA
9	YOGESHWARI S. BORSE	SSBT's COET BAMBHORI, JALGAON
10	DHANASHREE S. TAYADE	SSBT's COET BAMBHORI, JALGAON
11	SWETA PANDEY	SSBT's COET BAMBHORI, JALGAON
12	AKASH D. WAGHMARE	SSBT's COET BAMBHORI, JALGAON
13	SANDIP S. PATIL	SSBT's COET BAMBHORI, JALGAON
14	ASHISH T. BHOLE	SSBT's COET BAMBHORI, JALGAON
15	ARCHANA R. SHINDE	SSBT's COET BAMBHORI, JALGAON
16	Dr. MANOJ E. PATIL	SSBT's COET BAMBHORI, JALGAON
17	SATPALSING DEVISING RAJPUT	SSBT's COET BAMBHORI, JALGAON
18	SHITAL ABHIMANYU PATIL	SSBT's COET BAMBHORI, JALGAON
19	PRITI RAMESH SHARMA	SSBT's COET BAMBHORI, JALGAON
20	ROHIDAS BALU SANGORE	SSBT's COET BAMBHORI, JALGAON
21	SUDARSHAN S. SONAWANE	SGDCOE, JALGAON
22	SARKARSINHA H. RAJPUT	SSBT's COET BAMBHORI, JALGAON
23	JAGTAP N. P.	SSBT's COET BAMBHORI, JALGAON
24	SHAMBHU KUMAR SINGH	SSBT's COET BAMBHORI, JALGAON
25	Dr. U.S. BHADADE	SSBT's COET BAMBHORI, JALGAON
26	A. K. BHAVSAR	SSBT's COET BAMBHORI, JALGAON
27	N.Y. SURYAWANSHI	SSBT's COET BAMBHORI, JALGAON
28	Dr. M.P. DESHMUKH	SSBT's COET BAMBHORI, JALGAON
29	Dr. K.P. ADHIYA	SSBT's COET BAMBHORI, JALGAON

30	Dr. SUNITA S. PATIL	SSBT's COET BAMBHORI, JALGAON
31	PRADIP M. PATIL	NMKC COET, JALGAON
32	R.V PATIL	SSVPS COE, DHULE

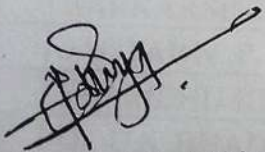
In the workshop, all the participants were appraised the structure and name of subjects at SE (Computer / Information Technology) – As per AICTE Guidelines and TE (Computer / Information Technology), to be effective from 2019 – 20.

In the workshop, following suggestions by the participants were discussed.

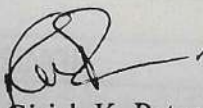
1. In view of Minor Project at TE, the subject Software Engineering should be at Semester – V. Hence, Software Engineering at Semester – VI and Design and Analysis of Algorithms at Semester – V should be interchanged.
2. The subject Advanced Algorithms as Professional Elective Course – II at Semester – VI should be shifted to Final Year of Computer Engineering course.
3. Indian author books suggested by AICTE should be added in the syllabus as reference books.
4. Internship at SE (As per AICTE Guidelines) and TE were discussed. Clarification regarding participation in number of conferences / workshops should be added.
5. Since in Theory subjects a total hour per subject is 42 (14 weeks, 3 hours per week), hence any TWO units should be of NINE hours and remaining THREE units should be of EIGHT hours.
6. With reference to letter No. KBCNMU/21/nmu/567/2018 dated 29/12/2018, Marks pattern for the subject Environmental Studies shall be 60:40 i.e. End Semester Examination (ESE) is of 60 marks and Internal Continuous Assessment (ICA) is of 40 marks.

Above suggestions (Sr. No. 1 to Sr. No. 6) are incorporated in the syllabus.

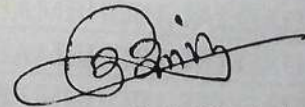
All participants expressed their satisfaction in the syllabus contents of SE (Computer / Information Technology) and TE (Computer / Information Technology), to be effective from 2019 – 20.



Dr. Krishnakant P. Adhiya  
Workshop Co-ordinator  
SSBT's COET, Jalgaon



Dr. Girish K. Patnaik  
Head, Deptt. of Computer Engg.  
SSBT's COET, Jalgaon



Dr. Umesh S. Bhadade  
Head, Deptt. of I. T.  
SSBT's COET, Jalgaon

0/2

कतयित्री बहिणाबाई चौधरी  
उत्तर महाराष्ट्र विद्यापीठ, जळगाव  
(अभ्यास मंडळ/प्रवेश व पत्रता/बहिःस्थ विभाग)  
पत्र मिळाले दि. 11/02/2019  
स्वाक्षरी.....



3-1-3

2018-19

**Report  
on  
International Conference on Global Trends in Science, Technology, Humanities,  
Commerce & Management 2019 (ICGTSTHCM 2019)  
January 18 – 20, 2019  
(Navigating the Future...)**

**Research Papers invited for three different tracks.**

- Track 1: Global Trends in Science and Technology
- Track 2: Global Trends in Commerce and Management
- Track 3: Global Trends in Humanities

**Areas (Sub-Themes)**

Topics of interest in each track include research and development trends in the following areas, but are not limited to:

- Computer Science and Engineering
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- Civil Engineering
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- Chemical Engineering
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- Pharmaceutical Sciences
- Social Sciences and Humanities
- Physical, Life and Applied Sciences
- Multidisciplinary, Interdisciplinary and Transdisciplinary Studies

**Paper Statistics:**

		Authors
Submissions	173	424
Accepted	93	230
Acceptance rate	0.54	
Accepted & Registered	87	216

All papers were checked for plagiarism, using Urkund software. The papers having percentage of similarity less than 25 were accepted for the oral presentation.



# IC<sup>GT</sup>STH<sup>CM</sup> 2019

## International Conference on Global Trends in Science, Technology, Humanities, Commerce & Management 2019

<http://icgtsthcm2019.sscoetjalgaon.ac.in/>

*January 18 – 20, 2019*

### Important Dates

- Last date for paper submission :  
December 26<sup>th</sup>, 2018
- Acceptance notification : January 2<sup>nd</sup>,  
2019
- Last date for camera ready copy  
submission : January 5<sup>th</sup>, 2019

### Conference Highlights

- All accepted papers will be published  
in International Journal of  
Management, Technology and  
Engineering with ISSN: 2249-7455,  
UGC approved journal Sl. No. 45550.
- Free workshop on “LaTeX – A Thesis  
Writing Tool” for registered  
participants.
- Papers are to be submitted through  
EASYCHAIR conference management  
system.



ORGANIZED BY  
Shram Sadhana Bombay Trust's  
COLLEGE OF ENGINEERING & TECHNOLOGY  
Bambhori, Post Box No. 94,  
Jalgaon – 425001, Maharashtra, India  
Included under section 2 (f) & 12 (B) of the UGC Act, 1956  
Grade B ++ (2.91) NAAC Accredited



## Awards

- "Better India Education Award - 2018" as Best Multi-Disciplinary Engineering College in Maharashtra by Today Research & Ratings.
- "Brand Excellence in Education" award from MY FM 94.3 of Dainik Bhaskar Group in 2017.
- "Lokmat - Corporate Excellence Award (2015)", for Brand Excellence in Education.
- "Engineering Education Excellence Award - 2015", by Indo Global Chamber of Commerce, Industries and Agriculture, Pune for the efforts in promoting Quality Education and implementing the higher standards of Technical Education in the field of Engineering.
- "EEF Award" for Excellence, by Engineering Education Foundation, Pune, in 2008-09.

## Best Practices

- Festival of Engineers, Administrators, Scientists and Technocrats (FEAST)
- Shram Sadhana Research Promotion Scheme (SSRPS)
- Shram Sadhana Scholarship Scheme (SSSS)
- Shram Sadhana Innovation and Entrepreneurship Development Center (SSIEDC)
- MOODLE as Learning Management System
- Digital Library

## Courses Offered

### UG Courses

- Bio-Technology
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Electronics and Telecommunication Engineering
- Information Technology
- Mechanical Engineering

### PG Courses

- Computer Science & Engineering
- Electrical Engineering with specialization in Electrical Power System
- Master of Business Administration (MBA)

### PhD Programmes

- Bio-Technology
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Electronics and Telecommunication Engineering
- Mechanical Engineering

## About Us

The College of Engineering and Technology, Bambhori, Jalgaon is governed by Shram Sadhana Bombay Trust (SSBT). The college is established in the year 1983 by the founder Chairperson Her Excellency Smt. Pratibha D. Patil, the Former President of India. It has a 25 acre eco-friendly residential campus located at high banks of river Girna and connected with NH 6. The college infrastructure is magnificent and splendid. The college offers eight Under-Graduate Courses, two Post-Graduate Courses in engineering, MBA and seven Doctoral Courses in Engineering. The campus has Institute of Pharmacy which offers Diploma in Pharmacy. The SSBT's College of Engineering and Technology, Bambhori, Jalgaon is a college with long tradition of societal development with technical education, research, consultancy and voluntary services. It has in its honor several certifications as highlighted below.

- The college is accredited by National Assessment and Accreditation Council (NAAC) with CGPA of 2.91 (B++ Grade).
- The College was accredited by National Board of Accreditation, New Delhi for three times:
- Four Programmes (Bio-Technology, Chemical, Civil, and E&TC) were provisionally accredited for two years wef 01/07/2014.
- Seven Programmes (Chemical, Civil, Computer Electrical, Electronics and Telecommunication, Information Technology and Mechanical) were accredited for five years wef 19/07/2008.
- Four Programmes (Chemical, Civil, Computer, and Mechanical) were accredited for three years wef 18/02/2005.
- It is included in the list of colleges prepared under Section 2(f) and 12(B) of the UGC Act, 1956.
- QMS of the College conforms to ISO 9001:2015.

## Our Inspiration

Dr. D. R. Shekhawat  
Eminent Educationalist, Former Chairman,  
GB, SSBT's College of Engineering &  
Technology, Bambhori, Jalgaon

## Chief Patron

Shri Raosaheb Shekhawat  
Chairman, GB, SSBT's College of  
Engineering & Technology, Bambhori,  
Jalgaon

## Patron

Prof. (Dr.) K. S. Wani  
Principal, SSBT's College of Engineering &  
Technology, Bambhori, Jalgaon

## Conveners

Prof. (Dr.) G. K. Patnaik  
HoD, Computer Engineering

Dr. P. J. Shah  
HoD, Electrical Engineering

Dr. K. S. Patil  
HoD, Applied Science

## Organizing Committee

### Organizing Chairs

Prof. (Dr.) I. D. Patil  
HoD, Biotechnology

Dr. U. S. Bhadade  
HoD, Information Technology

### Finance Chair

Dr. V. R. Diware  
HoD, Chemical Engineering

### Conference Management Chairs

Prof. (Dr.) S. R. Suralkar  
HoD, Electronics & Telecommunication  
Engineering

Dr. V. S. Rana  
HoD, Business Administration

### Publication Chairs

Prof. (Dr.) S. P. Shekhawat  
HoD, Mechanical Engineering

Prof. (Dr.) M. Husain  
HoD, Civil Engineering

## Conference Theme

Present generation has a special status that it has undergone a transformation of era, from millennium two to millennium three. The transformation is not only in temporal sense, but it has deeply penetrated into our lives. The transformation has been led by technocrats in true sense. The present era is also witnessing a significant alteration in the engineering paradigm. The technology has changed the way we live. Yet it has posed severe threats to our very existence e.g. the environmental degradation, climatic changes and resource depletion. Dr. A. P. J. Abdul Kalam, Scientist, Philosopher and Ex-President of India has said that the twentieth century was for the search of knowledge; the twenty first century is for the management of knowledge. The biggest challenge to be addressed today by the scientists and technocrats is to affirm the direction of research. Where do we move? Where shall we navigate? is the most crucial issue of today. It requires systematic brain storming. It needs to bring the engineers, technocrats, managers and researchers of diversified disciplines to come at a common platform to exchange their expertise, express their ideas, to share their knowledge & experiences, and to evolve the track for navigating the research. The present conference is miniature, yet firm endeavor for the same. It is expected that the engineers, technocrats, managers and researchers of vivid disciplines will intermingle on the forum of this conference and will provide an impressive momentum to the navigation of science, technology, management and humanities in its perpetual voyage.

## Conference Aim and Objectives

The conference aims to bring Scientists, Engineers, Academicians, Researchers and Professionals to exchange and share most recent innovations, trends and new research results on all aspects of Science, Technology, Humanities, Commerce & Management. The objectives of the conference are as follows.

- To allow researchers, students and engineers gathering, on a rather informal basis, for fruitful discussions, and presentation of new results within the conference topics.
- To understand, advance and promote the emerging global trends in Science, Technology, Humanities, Commerce & Management.
- To provide premier interdisciplinary forum for Scientists, Engineers, Academicians, Researchers and Professionals to navigate the future research for better mankind.

## Registration Fees

- Indian Author: 2000 INR
- International Author: 60 USD
- Indian Participant / Co-author: 1000 INR (Excluding Kit)
- International Participant/ Co-author: 30 USD (Excluding Kit)
- Online Registration is at the conference website.

## Publication

- All accepted papers will be published in International Journal of Management, Technology and Engineering (<http://ijamtes.org/>).
- ISSN: 2249-7455
- UGC approved journal Sl. No. 45550
- Indexed by CrossRef DOIs Databases, EBSCOhost, Google Scholar, Index-Copernicus, J-Gate, ProQuest, Ulrichsw eb etc.
- At least ONE author of the accepted paper must register at the regular rate for the conference.
- Certificate will be issued to author(s) by the journal.
- It is advisable to have plagiarism less than 10%.

## Conference Attraction

- The conference provides a free workshop on "LaTeX – A Thesis Writing Tool" for registered participants.
- The workshop will help the participants to write and manage Thesis / Dissertation report.

## Submission Guidelines

Prospective authors are invited to submit full length paper (maximum of SIX pages) electronically in Word format. The paper should be written in English and must be original, unpublished work containing new and interesting results that demonstrate current research in the respective areas. All submissions must be in the format available at <http://ijamtes.org/>.

Papers are to be submitted through EASYCHAIR conference management system using the link (<https://easychair.org/conferences/?conf=icgtsthcm2019>). In order to submit your paper, you must login to your EASYCHAIR account (<https://easychair.org/>). If you are not having an EASYCHAIR account, sign up to create a new account.

## Scope of the Conference

The scope of this conference constitutes interdisciplinary areas in which deliberations will be held on various topics. The discussion, deliberations and presentations will be carried out in three different tracks.

- Track 1: Global Trends in Science and Technology
- Track 2: Global Trends in Commerce and Management
- Track 3: Global Trends in Humanities

## Areas (Sub-Themes)

Topics of interest in each track include research and development trends in the following areas, but are not limited to:

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- Information Technology
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- Civil Engineering
- Mechanical Engineering
- Biotech Engineering
- Chemical Engineering
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- Pharmaceutical Sciences
- Social Sciences and Humanities
- Physical, Life and Applied Sciences
- Multidisciplinary, Interdisciplinary and Transdisciplinary Studies

## Contact Us

### ICGTSTHCM 2019

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Website:

<http://icgstst HCM2019.sccoetjalgaon.ac.in/>



Direct Your Queries to the  
Conveners

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**Dr. K. S. Patil**

Email:

patil.kiran@sscoetjalgaon.ac.in

(M) +91-9423977479

## Travel & Accommodation



Jalgaon is located in Northern Maharashtra, India and is mere 55 kms away from world famous Ajanta Caves. Jalgaon has excellent road and railway connectivity and one can easily reach here from almost all parts of India.

### By Road:

Jalgaon is 400 kms from Mumbai, Nagpur, Pune and 160 kms from Aurangabad.

### By Railways:

Jalgaon (Station Code: JL) is located on Central Railways Mumbai line and Jalgaon station has halts of major trains and Bhusaval - (Station Code: BSL) (located at 25 kms from Jalgaon) has all trains stoppages.

### By Air:

Aurangabad is nearest Airport to Jalgaon at distance of 160kms. Aurangabad has daily flights to and from Mumbai/ Delhi/ Hyderabad and has Air India/ Jet Airways/ Spicejet as major Carrier Airlines.

### Accommodation:

For the registered out station authors / participants accommodation arrangements in campus will be made on request. The accommodation is limited and on sharing basis. The accommodation cost will be paid by the authors / participants. Request for the same may be sent by email to [icgstst HCM@sscoetjalgaon.ac.in](mailto:icgstst HCM@sscoetjalgaon.ac.in)

**Report**  
**on**  
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- Commerce & Business Management
- Pharmaceutical Sciences
- Social Sciences and Humanities
- Physical, Life and Applied Sciences
- Multidisciplinary, Interdisciplinary and Transdisciplinary Studies

**Paper Statistics:**

		Authors
Submissions	173	424
Accepted	93	230
Acceptance rate	0.54	
Accepted & Registered	87	216

All papers were checked for plagiarism, using Urkund software. The papers having percentage of similarity less than 25 were accepted for the oral presentation.

Areas (Sub-Themes)	submissions	accepted	acceptance rate
Pharmaceutical Sciences	0	0	0
Information Technology	5	3	0.6
Social Sciences and Humanities	5	3	0.6
Commerce & Business Management	7	4	0.57
Multidisciplinary, Interdisciplinary and Transdisciplinary Studies	9	4	0.44
Mechanical Engineering	11	8	0.73
Biotech Engineering	11	8	0.73
Physical, Life and Applied Sciences	15	4	0.27
Electrical Engineering	17	8	0.47
Chemical Engineering	18	11	0.61
Electronics & Telecommunication Engineering	19	9	0.47
Civil Engineering	27	11	0.41
Computer Science and Engineering	48	32	0.67

### Papers Accepted & Registered:

Region / Area	Papers / Authors Registered
North Maharashtra	55
Nagpur	19
Amravati	03
Aurangabad	02
Pune	02
Mumbai	02
Madhya Pradesh	01
Bihar	01
Punjab	01
Telangana	01
<b>Total</b>	<b>87</b>

The accepted and registered papers are published in International Journal of Management, Technology and Engineering, Volume IX, Issue I, JANUARY – 2019. The journal is with ISSN: 2249-7455, UGC approved journal SI. No. 45550, Impact Factor 6.3 and indexed by CrossRef DOIs Databases, EBSCOhost, Google Scholar, IndexCopernicus, J-Gate, ProQuest, Ulrichsweb etc. Overall acceptance rate of the research papers in this conference is **0.54**.

### Chief Guests for the Inaugural Function (January 18, 2019):

1. Chief Guest Prof. Dileep N. Malkhede , Adviser –I (RIFD), All India Council for Technical Education, New Delhi
2. Guest of Honour Prof. P. P. Mahulikar, Hon'ble Pro Vice-Chancellor, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon (M.S.), India
3. Guest of Honour Dr. Arkom Palamanit, Prince of Songkla University, Thailand

4. Ms. Seangjan Pinkanjanarat, Head of Research & Innovation, Prince of Songkla University, Thailand

**Papers Presented:**

Date	Time	Sub-Theme	Number of Papers	Track	Session	Session Chair	Presented
18/01/2019	2.30 pm to 5.30 pm	Computer & IT	18	1	1	Dr. Sheshang Dipakkumar Degadwala Sigma Institute of Engineering, Vadodara	6
	2.30 pm to 5.30 pm	Computer & IT	13	1	2	Prof. (Dr.) Satish R. Kolhe School of Computer Sciences Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon	7 ( 2 through Video Conferencing)
	2.30 pm to 5.30 pm	Mechanical	8	1	3	Dr. Arkom Palamanit Prince of Songkla University, Thailand	3
19/01/2019	10.30 am to 1.30 pm	Biotech & Chemical	15	1	4	Prof.(Dr.) J.B.Naik, Director University Institute Of Chemical Technology Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon	14
	10.30 am to 1.30 pm	Civil	10	1	5	Dr. Arun Kumar Dwivedi Sandip University, Nashik	3
	10.30 am to 1.30 pm	ETC & Electrical	13	1	6	Dr. Kishor V. Bhadane Sandip Foundation, Nashik	5 ( 1 through Video Conferencing)
19/01/2019	2.30 pm to 5.30 pm	Commerce & Business Management Social Sciences and Humanities Physical, Life and Applied Sciences Multidisciplinary, interdisciplinary and Transdisciplinary Studies	10	2 & 3	7	Prof. K. J. Patil, School of Chemical Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon	8
<b>Total</b>			<b>87</b>				<b>46</b>

### Conference Outcome:

1. Emphasis and awareness was to quality through originality of research work.
2. 46 authors from diversified disciplines, such as Science, Technology, Humanities, Commerce & Management, participated and presented their research findings in the conference.
3. Publication in UGC Approved Journal and e-Inauguration of Journal Issue Published.
4. Conference bag was eco-friendly (Jute Canvas Backpack Laptop Bag).
5. Chief Guest Prof. Dileep N. Malkhede expressed his satisfaction for giving such opportunities to researchers & academicians. He also expressed his willingness to support all such conferences in future organized by our college. He also appreciated the participation of our students in Hackathon, a national level technical event. He was very much delighted to see the effective implementation of Induction Program for the first year students.
6. Following points were discussed with Dr. Arkom Palamanit for further course of actions.
  - a. Sharing list of expertized domains of faculty members
  - b. Organizing such conferences jointly
  - c. Organizing expert lectures through video conferencing
  - d. Joint research projects of mutual interest
  - e. Organizing summer schools for students



Head  
Computer Engineering Department  
SSBT's College of Engineering & Technology  
Bambhori, Jalgaon - 425001 (M.S.)



**Report of ONE day Workshop on Syllabus Framing  
For SE (Computer / Information Technology)**

**Date: July 3<sup>rd</sup>, 2018**

A workshop on Syllabus Framing for SE (Computer / Information Technology) was held on July 3<sup>rd</sup>, 2018 at SSBT's College of Engineering & Technology, Bambhori, Jalgaon.

Following faculty members were present in the workshop.

Sr. No.	Name of Faculty	Name of College
1	Dr. Girish Kumar Patnaik	SSBT's COET Bambhori Jalgaon
2	Dr. Krishnakant Prabhudas Adhiya	SSBT's COET Bambhori Jalgaon
3	Dr. U. S. Bhadade	SSBT's COET Bambhori Jalgaon
4	Mr. R. B Sangore	SSBT's COET Bambhori Jalgaon
5	Ms. Sonal P. Patil	GHRJEM, Jalgaon
6	Ms. Shital S. Jadhav	GHRJEM, Jalgaon
7	Mr. H.C. Agnihotri	SGD COE, Jalgaon
8	Mr. Parag Y. Patil	SGD COE, Jalgaon
9	Mr. Sudarshan S. Sonawane	SGD COE, Jalgaon
10	Mr. Nilesh V. Ingale	NMKC COET Jalgaon
11	Mr. Prashant D. Shimpi	NMKC COET Jalgaon
12	Mr. Pankaj S. Deshmukh	JTM COE Faizpur
13	Mr. Dinesh D. Puri	SSBT's COET Bambhori Jalgaon
14	Mr. Akash D. Waghmare	SSBT's COET Bambhori Jalgaon
15	Mr. Dipak D. Bage	SSBT's COET Bambhori Jalgaon
16	Mr. Sandip S. Patil	SSBT's COET Bambhori Jalgaon
17	Ms. Nilima S. Ramteke	SSBT's COET Bambhori Jalgaon
18	Miss. Sweta Pandey	SSBT's COET Bambhori Jalgaon
19	Miss. Archana Shinde	SSBT's COET Bambhori Jalgaon
20	Mr. Surendra P. Ramteke	SSBT's COET Bambhori Jalgaon

21	Dr. Sunita. S. Patil	SSBT's COET Bambhori Jalgaon
22	Ms. Meera Deshpande	SSBT's COET Bambhori Jalgaon
23	Dr. M.P. Deshmukh	SSBT's COET Bambhori Jalgaon
24	Mr. D.U. Adokar	SSBT's COET Bambhori Jalgaon

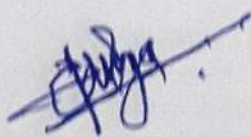
In the workshop, all the participants were appraised AICTE model curriculum and detail syllabus of S.E, suggested by AICTE.

In the workshop, following suggestions by the participants were discussed.

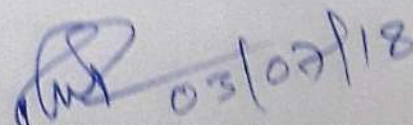
1. Reference books suggested by AICTE should be added in the syllabus.
2. Environmental Studies at SE should be only for Direct SE admitted students.
3. In the Digital Electronics Lab at Semester IV, experiments may be conducted using simulators such as Atanua, Cedar Logic etc.
4. All experiments related to computer may be conducted using open source software.
5. Practical for Data Structure and Algorithms Lab may be conducted in C/C++/JAVA Programming Language.
6. The subject named as Signals and Systems may be removed.

Above suggestions (Sr. No. 1 to Sr. No. 5) are incorporated in the syllabus.

All participants expressed their satisfaction in the syllabus contents of SE (Computer / Information Technology).



Dr. Krishnakant Prabhudas Adhiya  
Workshop Co-ordinator  
SSBT's COET, Jalgaon

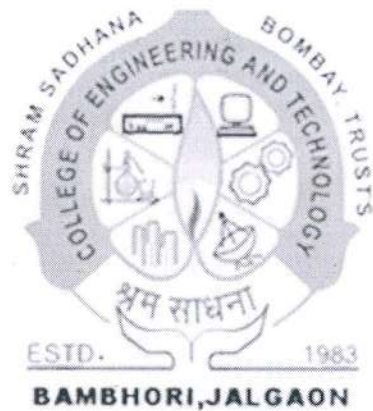


Dr. Girish Kumar Patnaik  
Head, Deptt. of Computer Engg.  
SSBT's COET, Jalgaon



One day Seminar  
On  
**Adoption & Promotion of e-Learning  
in Higher Education Institutes**

January 05 , 2019



ISO 9001:2015

ORGANIZED BY

**Internal Quality Assurance Cell ,  
Shram Sadhana Bombay Trust's  
COLLEGE OF ENGG. & TECHNOLOGY**

Bambhori , Post Box No. 94 ,  
Jalgaon – 425001 , Maharashtra , India

Included u/s 2 (f) & 12 (B) of the UGC Act, 1956  
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E-mail : [sscoetjal@gmail.com](mailto:sscoetjal@gmail.com)

Website : [www.sscoetjalgaon.ac.in](http://www.sscoetjalgaon.ac.in)

**About our institute :**

The College of Engineering and Technology, Bambhori, Jalgaon is governed by Shram Sadhana Bombay Trust (SSBT). The college is established in the year 1983 by the founder Chairperson Her Excellency Smt. Pratibha D. Patil, the Former President of India. It has a 25 acre eco-friendly residential campus located at high banks of river Girna and connected with NH 6. The college infrastructure is magnificent and splendid. The college offers eight Under-Graduate Courses, two Post-Graduate Courses in engineering, MBA and seven Doctoral Courses in Engineering. The campus has Institute of Pharmacy which offers Diploma in Pharmacy. The SSBT's College of Engineering and Technology, Bambhori, Jalgaon is a college with long tradition of societal development with technical education, research, consultancy and voluntary services. It has in its honor several certifications as highlighted below:

- The college is accredited by National Assessment and Accreditation Council (NAAC) with CGPA of 2.91 (B++ Grade).
- The College was accredited by National Board of Accreditation, New Delhi for three times:
- Four Programmes (Bio-Technology, Chemical, Civil and E&TC) were provisionally accredited for two years wef 01/07/2014.
- Seven Programmes (Chemical, Civil, Computer, Electrical, Electronics and Telecommunication, Information Technology and Mechanical) were accredited for five years wef 19/07/2008.
- Four Programmes (Chemical, Civil, Computer, and (Mechanical) were accredited for three years wef.18/02/2005.
- It is included in the list of colleges prepared under Section 2(f) and 12(B) of the UGC Act, 1956.
- QMS of the College conforms to ISO 9001:2015.

**About the seminar topic :**

Higher education institutes have been set up primarily to impart career oriented knowledge to would-be professionals .To ascertain & improve the quality of the institutes as well as to safeguard the interest of all the major stakeholders , namely the recruiting industry , students & their parents , it has been deemed essential to ensure that all the faculty of the institute are well versed in the latest developments in their field & are competent enough to impart quality education to the students . In this

regard , AICTE has made it mandatory for all faculty members to attend good quality Faculty Development Programme ( FDP ) on a regular basis and the Internal Quality Assurance Cell ( IQAC ) of the respective institutes are required to monitor its compliance as well as report to AICTE and NBA / NAAC / ISO / other accreditation bodies .

**e-Learning** , as a cost-effective & convenient form of distance education , has become extremely popular . Courses on miscellaneous subjects are being conducted by various institutes & universities of international / national repute . Our MHRD has also established NPTEL / Swayam platform in collaboration with IITs / IIMs which provide free course material , conduct proctored on-line examination & issue certificate at nominal charges . In this seminar the above concepts will be discussed in details & relevant information about e-learning platforms / sources will be shared with participating faculty .

**Inspiration:** Dr. D. R. Shekhawat  
Former Chairman , Governing Body

**Chief Patron:** Shri Raosaheb Shekhawat  
Chairman , Governing Body

**Patron:** Prof. K. S. Wani , Principal

**Convener :** Prof.S.P.Shekhawat , IQAC coordinator

**Programme schedule :**

10:30 - 11:00 hrs - Registration of participants  
11:00 - 11:30 hrs - Inaugural Function  
11:30 - 13:30 hrs - Session I & II  
14:00 - 16:00 hrs - Session III & IV  
16:15 - 16:45 hrs - Valedictory session

**Chief guest :** Dr. A.M. Mahajan ,  
Former Registrar , KBCNMU Jalgaon

**Resource Persons :**

Dr. K.D. Desai , VPMMP COE Nashik  
Mr. Ravindra Mendhe , Library SVKMNIMS , Shirpur  
Dr. Ram P. Bhavsar , Computer dept. KBCNMU Jalgaon  
Er. C.K. Mukherjee , Mech. dept. SSBT COET Jalgaon

**Registration Fee :** NIL for SSBT COET Bambhori faculty

**Co-convener & Contact Person:**

C.K. Mukherjee , Asstt. Prof. ( Mechanical )  
Email : [ckm.jalgaon@gmail.com](mailto:ckm.jalgaon@gmail.com) , M : +91-7276760039

# SSBT's College of Engineering & Technology, Bambhori, Jalgaon

One Day Seminar on

“Adoption & Promotion of e-Learning in Higher Education Institutes”

Organized by

Internal Quality Assurance Cell ( IQAC )

Date - 5<sup>th</sup> January, 2019

## PROGRAM SCHEDULE

- 10:30 – 11:00 - Registration of Participants  
11:00 – 11:30 - Inaugural function
- Felicitation of dignitaries & Deep Prajwalan
  - Preface speech by IQAC Co-ordinator, Dr. S.P. Shekhawat
  - Address by i/c Principal, Dr. G.K. Patnaik
  - Address by Chief Guest, Dr. A.M. Mahajan
  - Vote of thanks by seminar co-convener, Er. C.K. Mukherjee

11:30 – 12:30 - Session I

Resource Person – Dr. K.D. Desai

Topic – Importance of e-Learning

12:30 – 13:30 - Session II

Resource Person – Mr. Ravindra Mendhe, Dy.Librarian, SVKM NIMS

Topic – Importance of library e-Resources

13:30 – 14:00 - Lunch Break

14:00 – 15:00 - Session III

Resource Person – Dr. Ram P. Bhavsar, Prof. ( Computer ), KBCNNU

Topic – e-learning for Capacity building & Interactive Teaching

15:00 – 16:00 - Session IV

Resource Person – Er. C.K. Mukherjee, Asstt. Prof. ( Mech ), SSBT COET

Topic – Importance of Online courses for teachers

16:00 – 16:15 - Tea Break

16:15 – 16:45 - Valedictory Session

- Responses by Participants
- Vote of Thanks by Dr. S.P. Shekhawat

# Glimpses of e – learning program





Shram Sadhana Bombay Trust's

# COLLEGE OF ENGINEERING AND TECHNOLOGY BAMBHORI, JALGAON - 425001 (M.S.)

Included under section 2 (f) & 12 (B) of the UGC Act, 1956 • Grade B ++ (2.91) NAAC Accredited  
T : (0257) 2258393, Fax : (0257) 2258392 | W: [www.sscoetjalgaon.ac.in](http://www.sscoetjalgaon.ac.in), Email: [sscoetjal@gmail.com](mailto:sscoetjal@gmail.com)

## CERTIFICATE

This is to certify that ~~Mr./Miss./Dr.~~ VISHAL S. RANA.....  
has attended a one day seminar on "**Adoption and Promotion of e-learning in Higher Education Institutes**"  
Organized by Internal Quality Assurance Cell of SSBT's COET, Bambhori, Jalgaon on 5<sup>th</sup> January 2019

  
**MR. C. K. MUKHERJEE**  
Co - Convener

  
**DR. S. P. SHEKHAWAT**  
Co-ordinator IQAC and Convener

  
**DR. K. S. WANI**  
Principal / Chairman IQAC

**Academic Year**  
**2019-20**

# IC<sup>GT</sup>STH<sup>CM</sup>19

## International Conference on Global Trends in Science, Technology, Humanities, Commerce & Management

<http://icgtsthcm19.ssoetjalgaon.ac.in/>

December 28- 30, 2019

### Important Dates

- Last date for paper submission :  
December 5<sup>th</sup>, 2019
- Acceptance notification :  
December 10<sup>th</sup>, 2019

### Conference Highlights

- All accepted papers will be published in Proceeding of the International Conference “Global Trends in Science, Technology, Humanities, Commerce & Management”(December 28-30, 2019) with ISBN.
- Papers are to be submitted through EASYCHAIR conference management system.

(<https://easychair.org/conferences/?conf=icgtsthcm19>)



ORGANIZED BY  
Shram Sadhana Bombay Trust's  
COLLEGE OF ENGINEERING & TECHNOLOGY  
Bambhori, Post Box No. 94,  
Jalgaon 425001, Maharashtra, India  
Included under section 2 (f) & 12 (B) of the UGC Act, 1956  
Grade B ++ (2.91) NAAC Accredited



## Awards

- Better India Education Award - 2018 as Best Multi-Disciplinary Engineering College in Maharashtra by Today Research & Ratings.
- Brand Excellence in Education award from MY FM 94.3 of Dainik Bhaskar Group in 2017.
- Lokmat - Corporate Excellence Award (2015), for Brand Excellence in Education.
- Engineering Education Excellence Award - 2015, by Indo Global Chamber of Commerce, Industries and Agriculture, Pune for the efforts in promoting Quality Education and implementing the higher standards of Technical Education in the field of Engineering.
- EEF Award for Excellence, by Engineering Education Foundation, Pune, in 2008-09.

## Best Practices

- Festival of Engineers, Administrators, Scientists and Technocrats (FEAST)
- Shram Sadhana Research Promotion Scheme (SSRPS)
- Shram Sadhana Scholarship Scheme (SSSS)
- Shram Sadhana Innovation and Entrepreneurship Development Center (SSIEDC)
- Digital Library

## Courses Offered

### UG Courses

- Bio-Technology
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Electronics and Telecommunication Engineering
- Information Technology
- Mechanical Engineering

### PG Courses

- Computer Science & Engineering
- Electrical Engineering with specialization in Electrical Power System
- Master of Business Administration (MBA)

### Ph.D. Programmes

- Biotechnology
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Electronics and Telecommunication Engineering
- Mechanical Engineering

## About Us

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- QMS of the College conforms to ISO 9001:2015

## Our Inspiration

Dr. D. R. Shekhawat  
Eminent Educationalist, Former Chairman,  
Governing Body, SSBT's College of  
Engineering & Technology, Bambhori,  
Jalgaon.

## Chief Patron

Shri. Raosaheb Shekhawat  
Chairman, Governing Body, SSBT's College  
of Engineering & Technology, Bambhori,  
Jalgaon.

## Patron(s)

Prof. (Dr.) K. S. Wani  
Principal, SSBT's College of Engineering &  
Technology, Bambhori, Jalgaon.

Prof. (Dr.) S. P. Shekhawat  
Vice Principal, SSBT's College of  
Engineering & Technology, Bambhori,  
Jalgaon.

## Conveners

Dr. V. R. Diware  
HoD, Biotechnology and Chemical  
Engineering

Er. N. K. Patil  
HoD, Mechanical Engineering

## Organizing Committee

### Organizing Chairs

Dr. P.J. Shah  
HoD, Electrical Engineering

Dr. U. S. Bhadade  
HoD, Information Technology

### Finance Chair

Dr. K.S.Patil  
HoD, Applied Science.

### Conference Management Chairs

Prof. (Dr.) S. R. Suralkar  
HoD, Electronics & Telecommunication  
Engineering

Dr. V. S. Rana  
HoD, Business Administration

### Publication Chairs

Prof. (Dr.) G. K. Patnaik  
HoD, Computer Engineering

Prof. (Dr.) M. Husain  
HoD, Civil Engineering

## Conference Theme

Present generation has a special status that it has undergone a transformation of era, from millennium two to millennium three. The transformation is not only in temporal sense, but it has deeply penetrated into our lives. The transformation has been led by Technocrats, Entrepreneur, Social Workers and Educators in true sense. The present era is also witnessing a significant alteration in the Education, Industrial and Economical paradigm. Smt. Pratibhatai D. Patil, Ex-President of India has said that I am deeply committed to the cause of education and would like to see every person, man and women, boy and girl, be touched by the light of modern education. The technology has changed the way we live. Yet it has posed severe threats to our very existence e.g. the environmental degradation, climatic changes and resource depletion. Dr. A. P. J. Abdul Kalam, Scientist and Ex-President of India has said that the twentieth century was for the search of knowledge; the twenty first century is for the management of knowledge. The biggest challenge to be addressed today by the scientists and technocrats is to affirm the direction of research. Where do we move? Where shall we navigate? is the most crucial issue of today. It requires systematic brain storming. It needs to bring the engineers, technocrats, managers and researchers of diversified disciplines to come at a common platform to exchange their expertise, express their ideas, to share their knowledge & experiences, and to evolve the track for navigating the research. The present conference is miniature, yet firm endeavor for the same. It is expected that the engineers, technocrats, managers and researchers of vivid disciplines will intermingle on the forum of this conference and will provide an impressive momentum to the navigation of science, technology, management and humanities in its perpetual voyage.

## Conference Aim and Objectives

The conference aims to bring Scientists, Engineers, Academicians, Researchers and Professionals to exchange and share most recent innovations, trends and new research results on all aspects of Science, Technology, Humanities, Commerce & Management. The objectives of the conference are as follows.

- To allow researchers, students and engineers gathering, on a rather informal basis, for fruitful discussions, and presentation of new results within the conference topics.
- To understand, advance and promote the emerging global trends in Science, Technology, Humanities, Commerce & Management.
- To provide premier interdisciplinary forum for Scientists, Engineers, Academicians, Researchers and Professionals to navigate the future research for better mankind.

## Registration Fees

- Indian Author: 2000 INR
- International Author: 60 USD
- Indian Participant / Co-author: 1000 INR (Excluding Kit)
- International Participant/ Co-author: 30 USD (Excluding Kit)
- Online Registration is at the conference website.
- The third day of conference will have visit to Ajanta Caves. Interested participants can book their seat for visit on the day 1 of the conference with due payment.

## Publication

- All accepted papers will be Published in Proceeding of the International Conference on Global Trends in Science, Technology, Humanities, Commerce & Management with ISBN.
- At least ONE author of the

accepted paper must register at the regular rate for the conference.

- It is advisable to have plagiarism less than 20 %.

## Areas (Themes)

Include research and development trends in the following areas, but are not limited to:

- Computer Science and Engineering
- Information Technology
- Electrical Engineering
- Electronics & Telecommunication Engineering
- Civil Engineering
- Mechanical Engineering
- Biotech Engineering
- Chemical Engineering
- Commerce & Business Management
- Pharmaceutical Sciences
- Social Sciences and Humanities
- Physical, Life and Applied Sciences
- Multidisciplinary, Interdisciplinary and Transdisciplinary Studies

## Submission Guidelines

Prospective authors are invited to submit full length paper (maximum of FIVE pages) electronically in Word format, font size & style- 12 point times new roman, and typed in single space justified. The paper should be written in English and must be original, unpublished work containing new and interesting results that demonstrate current research in the respective areas.

Papers are to be submitted through EASYCHAIR conference management system using the link (<https://easychair.org/conferences/?conf=icgtsthcm19>). In order to submit your paper, you must login to your EASYCHAIR account (<https://easychair.org>). If you are not having an EASYCHAIR account, sign up to create a new account.

## Contact Us

ICGTSTHCM19

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(M) +91-9422275753

## Travel & Accommodation



Jalgaon is located in Northern Maharashtra, India and is mere 55 kms away from world famous Ajanta Caves. Jalgaon has excellent road and railway connectivity and one can easily reach here from almost all parts of India.

**By Road:**

Jalgaon is 400 kms from Mumbai, Nagpur, Pune and 160 kms from Aurangabad.

**By Railways:**

Jalgaon (Station Code: JL) is located on Central Railways Mumbai line and Jalgaon station has halts of major trains and Bhusawal - (Station Code: BSL) (located at 25 kms from Jalgaon) has all trains stoppages.

**By Air:**

Aurangabad is nearest Airport to Jalgaon at distance of 160kms. Aurangabad has daily flights to and from Mumbai/ Delhi/ Hyderabad and has Air India/ Jet Airways/ Spice jet as major Carrier Airlines.

**Accommodation:**

For the registered out station authors / participants accommodation arrangements in campus will be made on request and is on first come first serve basis. The accommodation is limited and on sharing basis. The accommodation cost will be paid by the authors / participants. Request for the same may be sent by email to [icgststcm@sscoetjalgaon.ac.in](mailto:icgststcm@sscoetjalgaon.ac.in)

## **Advisory Committee:**

1. Prof.(Dr.) V. S. Sapkal, Former Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Head of Chemical Technology, Sant Gadge Baba Amravati University, Amravati.
2. Prof. (Dr.) Raju B. Mankar, Former Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University, Lonere, India, Director, L.I.T., Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.
3. Prof.(Dr.) P.P. Mahulikar, Pro Vice-Chancellor, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
4. Prof.(Dr.) R. D. Kulkarni, Pro Vice-Chancellor, Mumbai University, Mumbai.
5. Prof.(Dr.) Ved Vyas Dwivedi, Pro Vice Chancellor , Director, C. U. Shah University, Gujrat.
6. Prof.(Dr.) Rakesh Saxena, Director, Shri. Govindram Seksaria Institute of Technology and Science, Indore, Madhya Pradesh, India.
7. Prof.(Dr.) Jitendra B. Naik, Director, UICT, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. , M.S. India.
8. Prof. (Dr.) Satyendra Mishra, Former Director, UICT, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. , M.S. India.
9. Dr. S. S. Thipse, Assistant Director Engine Development Laboratory Automotive Research Association of India (ARAI),Pune ,India.
10. Dr. R.P.Khambayat, Joint Director, PSS Central Institute of Vocational Education, Bhopal , MP.
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13. Prof. (Dr.) B. V. Pawar, Professor and Director, School of Computer Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, Maharashtra, India.
14. Prof.(Dr.) Murlidhar Lokhande, Professor, Dept of commerce and dean Faculty of commerce and management , Dr. Babasaheb Ambedkar University. Aurangabad .
15. Prof.(Dr.) Dilip H. Lataye , Professor ,Civil Engineering Department ,National Institute of Technology Nagpur .
16. Prof.(Dr.)Anil P. Dongre, Professor & Director School of Management Studies , Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, Maharashtra, India.
17. Dr. Arkom Palamanit, Energy Systems Research Institute, Prince of Songkla University , Thailand.
18. Prof.(Dr.) M. A. Mulla, Professor, Electrical Engineering Department, SVNIT, Surat Gujarat, India.

19. Prof.(Dr.) Rajesh B. Lohani, Professor , Electronics engineering Department , Goa College of Engineering , Goa.
20. Prof.(Dr.) S. H. Sonawane, Professor and Head, Chemical Engineering Department, National Institute of Technology, Warangal, TS, India.
21. Prof.(Dr.) S.R. Kolhe, Director, School of Computer Sciences, KBC,NMU, Jalgaon.
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24. Shri. Bhaskar Borole, Director, Dwaraka Industries, MIDC, Jalgaon, Maharashtra, India
25. Dr. Sachin L. Borse, Associate Professor , Mechanical Engineering Department, College of Engineering, Shaqra University, Dawadimi, Kingdon of Saudi Arabia.
26. Dr.Nitin Raut, Chemical Engineering, Sohar University, Sohar, Oman.
27. Dr. Manesh B. Kokare, Associate Professor, SGGS Institute of Engineering and Technology, Vishnupuri, Nanded.
28. Dr. B. E. Narkhede, Associate Professor, National Institute of Industrial Engineering, Mumbai.





3.1.3


2019-20

# DEPARTMENT OF COMPUTER ENGINEERING

*Shrama Sadhana Bombay Trust's*

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

## Participation Statistics for Webinar on English for Academic Research Writing

Date: Tuesday, June 16, 2020		Time: 11 AM to 1 PM	
<b>Speaker</b>		<b>Outline</b>	
 <p>Girish Kumar Patnaik, <i>PhD</i> Professor &amp; Head Department of Computer Engineering</p>		<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Tenses in English</li> <li>• Tenses in Academic Research Writing               <ul style="list-style-type: none"> <li>– Abstract</li> <li>– Introduction</li> <li>– Methods</li> <li>– Results</li> <li>– Discussion</li> <li>– Future Recommendations</li> </ul> </li> <li>• Punctuations &amp; Capitals</li> <li>• Common Mistakes</li> </ul>	

### Total Number of Participation: 305

Category wise		Country wise		Local & Outside	
Faculty	185	Ethiopia	1	SSBT COET	84
Research Scholar	61	Germany	1	Jalgaon (Other than	
Student	45	India	302	SSBT COET)	33
Industry	5	Saudi Arabia	1	Outside Jalgaon	188
Other	9				

India State Wise Participation		Maharashtra State City wise Participation	
Andhra Pradesh	6	Ahmednagar	2
Bihar	5	Akola	4
Chattisgarh	6	Amalner	2
Gujarat	4	Amravati	2
Maharashtra	271	Aurangabad	3
Madhya Pradesh	1	Bhusawal	11
Odisha	1	Dhule	13
Rajasthan	1	Jalgaon	117
TamilNadu	2	Mumbai	14
Telangana	4	Nandurbar	1
Uttar Pradesh	1	Nasik	18
	<b>Total 302</b>	Navi Mumbai	4
		Pune	31
		Shirpur	26
		Thane	2
		Other	21
		<b>Total</b>	<b>271</b>



## Report on One Day Workshop on C and C++

Level: National

Title: One Day Workshop on C and C++

Category: Faculty Development Program

Date: 29<sup>th</sup> February 2020 (1 Day)

No. of Resource Persons: 03

No. of Participants: 29

Mode: Online (Live)

Organizers: Teaching Learning Centre(ICT), IIT Bombay and Department of Computer Engineering, SSBT's COET, Jalgaon, Maharashtra (RC ID: 1119)

Resource Persons:

Prof. Bhaskaran Raman, Department of Computer Science & Engineering, IIT Bombay  
Prof. Kameswari Chebrolu , Department of Computer Science & Engineering, IIT Bombay  
Prof. Varsha Apte , Department of Computer Science & Engineering, IIT Bombay

**Objective:** To offer the highly effective Spoken Tutorial based ICT training to a large number of teachers, across the country, through the T10KT methodology, with C and C++ programming language training.

**Report:** The C and C++ workshop was organised by the Teaching Learning Centre (TLC) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) , MHRD, Govt. of India and Department of Computer Engineering, SSBT's COET, Jalgaon, Maharashtra (RC ID: 1119). The one day C and C++ main workshop was conducted on Saturday, 29 February 2020. This was a blended training programme which used A-VIEW for live interactions and Spoken Tutorials to learn to use C and C++. The medium of instruction for the workshop was English. Language dubbed\*Spoken Tutorials in 15+ Indian languages are also available.

The workshop began with brief introduction by course coordinator Mr. Ashish T. Bhole, Associate Professor, Department of Computer Engineering. The Guest live talks by Prof. Bhaskaran Raman, HoD, CSE Department, IIT Bombay, Prof. Kameswari Chebrolu, Prof.

Varsha Apte and Prof. Kannan Moudgalya were telecasted using the video conferencing software, A-VIEW.

Throughout the day, participants watched C and C++ programming language video tutorials on computers with earphone and accordingly had side-by-side hands-on sessions on computers using Spoken Tutorials. Meanwhile, participants of the remote centre also interacted online during live sessions through A-VIEW.

The workshop ended with vote of thanks by Mr. Dipak C. Talele, Remote Centre Co-ordinator & Assistant Professor, Department of Mechanical Engineering. The online feedback was collected from the participants and E-certificates were made available to the participants in their respective log-in. Around 26 teaching faculty members from various departments of engineering college and 3 High School teachers participated in the workshop. The workshop was well appreciated by the participants.

**Outcome:** As Spoken Tutorial method offers hands-on practice, with 100% active learning, those who had undergone the training, will be able to start using C and C++ immediately after the workshop. They will also be able to conduct C and C++ workshops for their students, using Spoken Tutorials, without requiring any help from anyone else.



**Mr. Ashish T. Bhole**

**Course Co-ordinator**



**Mr. Dipak C. Talele**

**Remote Centre Co-ordinator (RC ID: 1119)**



## 1. Introduction

IIT Bombay has conducted many large-scale teacher training workshops under the Train 10,000 Teachers (T10KT) programme, sponsored by the National Mission on Education through ICT (NMEICT), MHRD, Govt. of India, and trained over 2,00,000 teachers

Another successful technology developed at IIT Bombay is Spoken Tutorial, using which about 50 lakh students have been trained on various ICT topics. The effectiveness of this method can be seen from the testimonials available here: <https://spoken-tutorial.org/testimonials/media?loss=70> and the [TEDx talk](#). This project is funded by NMEICT, MHRD.

It is now proposed to offer the highly effective Spoken Tutorial based ICT training to a large number of teachers, across the country, through the T10KT methodology, with C and C++ training being taken up next.

C and C++ are used for developing operating systems, compilers, parsers, interpreters, word processors, search engines and graphic programmes, to mention a few.

- **Support:** C requires less runtime support.
- **Portable programming language:** A variety of C and C++ programmes written for one computer system, can be compiled and run on another system, with little or no change.
- **Modular:** Written in routines called functions and classes, (C++) programs can be used in other applications or programs.
- **Preferred by professional programmers:** A variety of C and C++ resources and helpful support are widely available.
- **Standardized:** Many standards have been documented, maintained and updated for C and C++ as standard references.

The Spoken Tutorial project at IIT Bombay (<https://spoken-tutorial.org>) has been promoting C and C++, and other FLOSS (Free/Libre and Open Source Software), such as Scilab, Python, OpenFOAM, eSim, Osdag, OpenModelica, DWSIM, Druval and R, and Open Source hardware, such as Arduino and OpenPLC.

The C and C++ workshop is organised by the Teaching Learning Centre (TLC) at IIT Bombay, funded by the *Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT)*, MHRD, Govt. of India. As Spoken Tutorial method offers hands-on practice, with 100% active learning, those who undergo this training will be able to start using C and C++ immediately after the workshop. They will also be able to conduct C and C++ workshops for their

students, using Spoken Tutorials, without requiring any help from anyone else.

The one day C and C++ main workshop will be conducted on **Saturday, 29 February 2020**, through the select Remote Centres of IIT Bombay. This will be a blended training programme that uses A-VIEW for live interactions and Spoken Tutorials to learn to use C and C++. The medium of instruction for this workshop is English. Language dubbed Spoken Tutorials in 15- Indian languages will also be available.

## 2. Methodology of the Workshop

It will be a one day workshop, on **29 February 2020**. All participants will have to go to their chosen Remote Centre.

They will learn C and C++ through the active method of reproducing every command demonstrated in the award-winning Spoken Tutorials. As learning happens through self-learning, the self-confidence of the learners is very high. Moreover, they can use the same method to train their students on the important topic of C and C++, using Spoken Tutorials.

All the participants from all the Remote Centres, will be able to interact with the C and C++ team at IIT Bombay, ask them questions, etc. through the video conferencing software A-VIEW. There will be about 4 hours available for C and C++ training and 2 hours for interactions.

A timed discussion forum <https://forums.spoken-tutorial.org/> will be used to answer the questions that the participants may have in different Remote Centres. One has to select the Spoken Tutorial, and the exact time (minute and second) when the doubt arises. It will be answered immediately by one of the volunteers. Answers can also be provided by other participants in the same Remote Centre or in other Centres. These answers double as additional learning material. This video explains how to use the Forum: <https://youtu.be/H8YjlfvwbJk>

Course Coordinators at Remote Centres, already trained for this purpose, ensure that the workshop goes through smoothly.

Using this approach, we have trained 3,500, 4,200, 4,300, 5,300, 2380, 2400, 2800 and 1500 teachers, respectively, on Koha, Moodle, Scilab, Python, eSim, Linux, R and Arduino

workshops in the past 1 year. We expect to train about 5,000 teachers through this workshop.

## 3. Syllabus for the workshop

### Basic Level

- 1) First C Program
- 2) First C++ Program
- 3) Tokens in C and C++
- 4) Functions in C and C++
- 5) Scope of Variables in C and C++
- 6) If And Else If statement in C and C++
- 7) Nested if and switch statement in C and C++
- 8) Increment and Decrement Operators in C and C++
- 9) Arithmetic Operators in C and C++
- 10) Relational Operators in C and C++
- 11) Logical Operators in C and C++
- 12) Loops in C and C++

### Intermediate level

- 13) Arrays in C and C++
- 14) Working with 2-D Arrays in C and C++
- 15) Strings in C and C++
- 16) String Library Functions in C and C++
- 17) Working with Structures in C and C++
- 18) Understanding Pointers in C and C++
- 19) Function call in C and C++
- 20) File Handling in C

## 4. Teaching faculty

- **Prof. Bhaskaran Raman**, Department of Computer Science & Engineering, IIT Bombay
- **Prof. Kameswari Chebrolu**, Department of Computer Science & Engineering, IIT Bombay
- **Prof. Varsha Aptt.**, Department of Computer Science & Engineering, IIT Bombay

## 5. Course Fee

Every participant has to pay Rs. 100 as the course fee to IIT Bombay at the time of online registration. On the day of the workshop, i.e., on **29 February 2020**, they have to pay Rs. 400 to the Remote Centre that they would be attending, to

defray the cost of organising the workshop, lunch, and coffee/tea. Please note that the registration fee once paid is neither refundable nor adjustable under any circumstances.

#### 6. Who should attend?

As this workshop is not subject-specific, teaching faculty from all colleges (engineering, sciences, arts, commerce, management, law, medicine, etc.), polytechnic colleges, ITIs, and schools, can attend. Teachers registered in any Masters programme, and also all Research Scholars can also participate.

#### Why You Should Attend?

- You can help your colleagues who may not be good in C and C++, answer forum questions, etc.
- You will learn the pedagogy of Spoken Tutorials, which you can implement in your own college/school, without need of help from anyone else.
- You can possibly contribute to the creation of Spoken Tutorials in C and C++ or in any other topic.
- A series of activities are planned for those who do well in tests. For example, top 1,000 teachers to get trained on C and C++ lab courses, through a more detailed, longer duration, course; getting shortlisted for courses, such as Data Structures, etc.

#### 7. Criteria for issuing Certificates

E-certificate will be provided to the participants after successful completion of the workshop.

#### 8. Duration and Venue

The workshop will be conducted on **Saturday, 29 February 2020 from 9.30 AM to 6.00 PM at Remote Centres of IIT Bombay**. This workshop will be conducted through a blended mode, using both live video conferencing facility (A-VIEW) and hands-on sessions using Spoken Tutorials. A detailed workshop schedule will be available soon.

## One day Workshop on **C and C++**

Conducted by the  
Teaching Learning Centre (TLC)

Funded by the

Pandit Madan Mohan Malaviya  
National Mission on Teachers and Teaching-  
MHRD, Govt. of India

Supported by Spoken Tutorial

on

**29 February 2020**

Coordinated from  
**IIT Bombay**



### C and C++ Course Instructor

**Prof. Bhaskaran Raman**  
Department of Computer Science & Engineering,  
**Indian Institute of Technology Bombay**

### Project Coordinator

**Prof. Kannan M. Moudgalya**  
Department of Chemical Engineering  
**Indian Institute of Technology Bombay**  
Powai, Mumbai 400076

#### 9. How to apply?

Enrollment will be strictly online, and no other mode of application will be entertained. **The last date of registration is 28 February 2020, 12.30 pm.** The URL for registration is: <http://www.iitb.ac.in/nmict/announcements.html>

#### Register on the Spoken Tutorial Website:

1. Before the workshop, participants should register on <https://spoken-tutorial.org/>
2. Fill up the registration form and submit.
3. An email will be received.
4. The account should be activated by clicking the link in the email.
5. The Username and Password should be noted. This is an extremely important step.
6. One needs the above information to post questions on the forum, explained from 8 to 9 minutes 45 seconds of [this video](#).

#### Note

- Neither IIT Bombay nor the Remote Centre will bear the travel expenses of the participating representatives. There shall also be no accommodation provided to the participants.
- All participants are required to bring **earphones**, as they will have to listen to video tutorials. Without earphones, the workshop will not at all be effective.
- Computers to practise Spoken Tutorials and to learn C and C++ will be available at the Remote Centres. But if they wish, participants can bring their own laptops with Linux OS installed.

#### 10. Address for communication

Dr. Kalpana Kannan  
Project Coordinator, ESOS Project  
Department of CSE, Kanwal Rekhi Building,  
Indian Institute of Technology Bombay,  
Mumbai - 400 076  
Tel.: +91-22-2576 4989  
Email: [eoutreach@it.iitb.ac.in](mailto:eoutreach@it.iitb.ac.in)

## One day Main Workshop on C and C++ on 29 February 2020

Timing	Teacher	Session type
9.00 AM - 9.30 AM	Connect online on A-VIEW and testing session	Online through A-VIEW
9.30 AM - 10.10 AM	Talks by the Chife Guest, the HOD, CSE, IIT Bombay, Prof. Bhaskaran Raman, Prof. Kameswari Chebrolu, Prof. Varsha Apte and Prof. Kannan	
10.10 AM - 10.30 AM	Interaction with Remote centers	
10.30 AM - 10.45 AM	*Tea Break	
10.45 AM - 12.30 PM	Activity: Hands-on session using spoken tutorials	At remote centre
12.30 PM to 01.00 PM	Interaction with Remote centers	Online through A-VIEW
1.00 PM - 2.00 PM	*Lunch Break	
2.00 PM- 3.30 PM	Activity: Hands-on session using spoken tutorials	At remote centre
3.30 PM- 3.45 PM	*Tea Break	
3.45 PM-4.30 PM	Activity: Hands-on session using spoken tutorials	At remote centre
4.30 PM - 6.00 PM	Question and Answer session and Valedictory session	Online through A-VIEW

# One Day C and C++ workshop for Faculty Members & Teachers

Organized by the Teaching Learning Centre (ICT), IIT Bombay at  
 Shrama Sadhana Bombay Trust's, College of Engineering and Technology  
 Bambhori, Post Box No. 94, Jalgaon - 425001 (M.S.) Remote Center (RC) ID: 1119

## Department of Computer Engineering

Date: - 29/02/2020

Time 9:30 AM To 06:00 PM

### Registration Sheet

Sr.No.	Enrol.Id	Name	Email	Contact No.	Institute Name	Signature
1	223147	Rohidas Sangore	rohidas18985@gmail.com	9763443635	SSBT's College of Engg. & Technology Bambhori	[Signature]
2	223381	Satpalsing Rajput	rajputsatpal@gmail.com	7588100300	SSBT's College of Engg. & Tech. Bambhori	[Signature]
3	223629	Pankaj Zope	phzope@gmail.com	9860631040	SSBT's College of Engg. & Tech. Bambhori	[Signature]
4	223630	Atul Karode	atul_karode@rediffmail.com	9800872247	SSBT's College of Engg. & Tech. Bambhori	[Signature]
5	223635	Sunny Paul	sunny.paul094@gmail.com	9370927314	SSBT College of Engg. & Tech. Bambhori	[Signature]
6	223650	Sunilkumar Patil	sunilkumar.patil@podar.org	9823634161	Podar International School, Jalgaon	[Signature]
7	223662	Ravindra Pawar	ravindra.pawar@podar.org	9403568555	Podar International School, Jalgaon	[Signature]
8	223702	Manoj Patil	mepatil@gmail.com	9420107905	SSBT's COET, Bambhori, Jalgaon	[Signature]
9	223820	Pradeep Solanki	adupradeep@gmail.com	9421519446	SSBT's College of Engg. & Tech. Bambhori	[Signature]
10	223830	Ashwini Patil	patilash8698@gmail.com	8329062972	SSBT's College of Engg. & Technology Bambhori	[Signature]
11	223947	Saroj Patil	sarojpatil74@rediff.com	9403932044	SSBT's College of Engg. & Tech. Bambhori	[Signature]
12	223961	Snehal Patil	snehal.patil@podar.org	8830206565	Podar International School, Jalgaon	[Signature]
13	224016	Priti Sharma	priti.sharma@gmail.com	7798276747	SSBT's COET, Jalgaon	[Signature]
14	224039	Nilima Ramteke	ramtekenilima25@gmail.com	9420518148	SSBT's college at ENBT.	[Signature]
15	224043	Sandip Patil	san_78004@yahoo.co.in	9420347893	SSBT COET Jalgaon	[Signature]
16	224050	Nitin Yashawant Suryavanshi	ni3suryavanshi@gmail.com	982607485	SSBT's COET Bambhori, Jal.	[Signature]
17	224102	Yogeshwari Borse	borseyogeshwari@gmail.com	9420790444	SSBT's College of Engg. & Tech. Bambhori	[Signature]
18	224366	Akash Waghmare	aakashjan8@gmail.com	9881080339	SSBT's COET Bambhori, Jal.	[Signature]
19	224447	Shekhar Suralkar	shekhar_srs@rediffmail.com	9421513744	SSBT's COET Bambhori, Jal.	[Signature]
20	224598	Surendra Ramteke	surendraranteke@rediffmail.com	9423432362	SSBT's COET Bambhori, Jal.	[Signature]
21	225301	Pravin D. Patil	Pravinpatil100@gmail.com	9422772178	SSBT COET Jalgaon	[Signature]
22	225430	Kajal Visrani	visranikajal11@gmail.com	7770062762	SSBT's COET, Bambhori, Jalgaon	[Signature]
23	225495	Savita Borse	savee.borse@gmail.com	8411002303	SSBT's COET, Bambhori, Jalgaon	[Signature]
24	225499	Jyoti Revanshete	Jyoti.revanshete@gmail.com	8668633184	SSBT's COET Bambhori, Jal.	[Signature]
25	225504	Prajakta Pawar	Prajaktapawar@gmail.com	8830153433	SSBT, COET, Bambhori, Jal.	[Signature]
26	225549	Dinesh Adokar	dadokar@gmail.com	9890239789	SSBT's COET, Bambhori, Jal.	[Signature]
27	225550	Jaya Suryavanshi	Jaya121096@gmail.com	9595345392	SSBT's COET, Bambhori, Jal.	[Signature]
28	225564	Archana Shinde	Archanaashinde04@gmail.com	7768054845	SSBT's COET, Bambhori, Jal.	[Signature]
29	225653	Vijay Sangore	vpsan72@rediffmail.com	9421626292	SSBT, COET, Bambhori, Jal.	[Signature]

Attendance Sheet for Date : 2020-02-29

One Day Main Workshop on C and CPP on 29 February 2020

February 29th, 2020 to February 29th, 2020

Under the National Mission on Education through ICT, MHRD, New Delhi

1119 - SSBT's College of Engineering And Technology, Bambhori, Jalgaon

Participant			Signature			
S No	Participant ID	Name	Session 1	Session 2	Session 3	Session 4
1	223147	Rohidas Sangore				
2	223381	Satpalsing Rajput				
3	223629	Pankaj Zope				
4	223630	Atul Karode				
5	223635	Sunny Paul				
6	223650	Sunilkumar Patil				
7	223662	Ravindra Pawar				
8	223702	Manoj Patil				
9	223820	Pradeep Solanki				
10	223830	Ashwini Patil				
11	223947	Saroj Patil				
12	223961	Snehal Patil				
13	224016	Priti Sharma				
14	224039	Nilima Ramteke				
15	224043	Sandip Patil				
16	224050	Nitin Yashawant Suryvanshi				
17	224366	Akash Waghmare				
18	224447	Shekhar Suralkar				
19	224598	Surendra Ramteke				
20	225301	Pravin D. Patil				
21	225430	Kajal Visrani				
22	225495	Savita Borse				
23	225499	Jyoti Revanshete				

24	225504	Prajakta Pawar	<del>Pawar</del>	<del>Pawar</del>	<del>Pawar</del>	<del>Pawar</del>
25	225549	Dinesh Adokar	<del>Adokar</del>	<del>Adokar</del>	<del>Adokar</del>	<del>Adokar</del>
26	225550	Jaya Suryawanshi	<del>Jaya</del>	<del>Jaya</del>	<del>Jaya</del>	<del>Jaya</del>
27	225564	Archana Shinde	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>	<del>Shinde</del>
28	225653	Vijay Sangore	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>
29	224102	Yogeshwari Boose	<del>Boose</del>	<del>Boose</del>	<del>Boose</del>	<del>Boose</del>

## Report on One Day Workshop on C and C++

Level: National

Title: One Day Workshop on C and C++

Category: Faculty Development Program

Date: 29<sup>th</sup> February 2020 (1 Day)

No. of Resource Persons: 03

No. of Participants: 29

Mode: Online (Live)

Organizers: Teaching Learning Centre(ICT), IIT Bombay and Department of Computer Engineering, SSBT's COET, Jalgaon, Maharashtra (RC ID: 1119)

Resource Persons:

Prof. Bhaskaran Raman, Department of Computer Science & Engineering, IIT Bombay

Prof. Kameswari Chebrolu , Department of Computer Science & Engineering, IIT Bombay

Prof. Varsha Apte , Department of Computer Science & Engineering, IIT Bombay

**Objective:** To offer the highly effective Spoken Tutorial based ICT training to a large number of teachers, across the country, through the T10KT methodology, with C and C++ programming language training.

**Report:** The C and C++ workshop was organised by the Teaching Learning Centre (TLC) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMMNMTT) , MHRD, Govt. of India and Department of Computer Engineering, SSBT's COET, Jalgaon, Maharashtra (RC ID: 1119). The one day C and C++ main workshop was conducted on Saturday, 29 February 2020. This was a blended training programme which used A-VIEW for live interactions and Spoken Tutorials to learn to use C and C++. The medium of instruction for the workshop was English. Language dubbed Spoken Tutorials in 15+ Indian languages are also available.


The workshop began with brief introduction by course coordinator Mr. Ashish T. Bhole, Associate Professor, Department of Computer Engineering. The Guest live talks by Prof. Bhaskaran Raman, HoD, CSE Department, IIT Bombay, Prof. Kameswari Chebrolu, Prof.

Varsha Apte and Prof. Kannan Moudgalya were telecasted using the video conferencing software, A-VIEW.

Throughout the day, participants watched C and C++ programming language video tutorials on computers with earphone and accordingly had side-by-side hands-on sessions on computers using Spoken Tutorials. Meanwhile, participants of the remote centre also interacted online during live sessions through A-VIEW.

The workshop ended with vote of thanks by Mr. Dipak C. Talele, Remote Centre Co-ordinator & Assistant Professor, Department of Mechanical Engineering. The online feedback was collected from the participants and E-certificates were made available to the participants in their respective log-in. Around 26 teaching faculty members from various departments of engineering college and 3 High School teachers participated in the workshop. The workshop was well appreciated by the participants.

**Outcome:** As Spoken Tutorial method offers hands-on practice, with 100% active learning, those who had undergone the training, will be able to start using C and C++ immediately after the workshop. They will also be able to conduct C and C++ workshops for their students, using Spoken Tutorials, without requiring any help from anyone else.



Mr. Ashish T. Bhole

Course Co-ordinator



Mr. Dipak C. Talele

Remote Centre Co-ordinator (RC ID: 1119)



Date: 08/08/2019

To,  
The Principal,  
SSBT's College of Engineering & Technology,  
Bambhori, Jalgaon

To.  
Dr. K.P. Adhiva  
for receipt.  
K  
9.8.19

Subject: Report of One day Faculty Training on Result Analysis and Online Survey

Respected Sir,

In view of preparation for accreditation, One day faculty training on result analysis and online survey was conducted on August 3<sup>rd</sup>, 2019 at Department of Computer Engineering. The details are as follows.

Sr. No.	Topic	Name of the Resource Person
1.	Result Analysis	Sandip S. Patil
2.	Success Index	Sushant S. Bahekar
3.	Online Survey	Ms. Nilima P. Patil Ms. Yogeshwari S. Borse

17 faculty members from all departments attended the same. Attendance sheet of the same is attached herewith.

This is for your kind information.

Thanking you.

With regards

(Dr. Girish K. Patnaik)  
Prof. & Head  
Department of Computer Engineering  
Head

Computer Engineering Department  
SSBT's College of Engineering & Technology  
Bambhori, Jalgaon - 425001 (M.S.)

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

**One Day Faculty Training on Result Analysis and Online Survey**  
 (Organized by Department of Computer Engineering)

Date: July 31, 2019  
 03/08/2019

ATTENDANCE SHEET

Sr. No.	Name	Department	Sign
1	Mrs. Sarita S Pawar	Biotechnology	<i>[Signature]</i>
2	Jayant P. Parpalliwar	Biotechnology	<i>[Signature]</i>
3	Dr H. Y. Ghaze	Chemical	<i>[Signature]</i>
4	V. P. Sangre	Chemical	<i>[Signature]</i>
5	Sonali B. Patil	Civil	<i>[Signature]</i> 31/8/19
6	Ankita S. Sawade	Civil	<i>[Signature]</i>
7	R. B. Sangore	IT	<i>[Signature]</i>
8	S. H. Rajput	IT	<i>[Signature]</i>
9	D. S. Patil	Electrical	<i>[Signature]</i>
10	N S Mahajan	Electrical	<i>[Signature]</i>
11	A H Kemode	Edtc	<i>[Signature]</i>
12	S P Ramteke	I & T C	<i>[Signature]</i>
13	T. G. Patil	MECH	<i>[Signature]</i>
14	P. M. Solanki	Mech	<i>[Signature]</i>
15	D. C. Talele	Mech	<i>[Signature]</i>

*[Signature]* 03/08/19

Head of the Department  
 Department of Computer Engineering  
**Head**  
 Computer Engineering Department  
 SSBT's College of Engineering & Technology  
 Bambhori, Jalgaon - 425001(M.S.)



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

**Brief Report on**

**Faculty Training on Result Analysis, Success Index and Online Survey**

**Date and Venue / Location:** One Day faculty Training on Result Analysis, Success Index and Online Survey on 3<sup>rd</sup> August 2019 by Department of Computer Engineering, SSBT's COET, Jalgaon, Maharashtra

**Aim / Purpose:** Train the faculty to Automate the University Result Analysis, Calculation of Student Success Index and Conduct Online Survey.

**Objectives:** Faculty should do the automated University Result Analysis; Calculate the Student Success Index and Conduct Online Survey.

**Participant's Profile:** Faculty Members of All the Departments

**Description about the Program:** The training session on SPSS Clementine Tool and Online Lime survey was conducted for the faculty members.

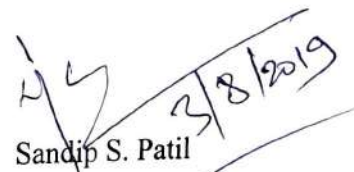
The session began with brief introduction by resource person Mr. Sandip S. Patil, Associate Professor, Mr. S.S.Bahekar, Ms. Nilima Patil and Ms. Yogeshwari Borse, Assistant Professor Department of Computer Engineering. The session was arranged Workshop on Result Analysis, Success Index and Online Survey

**The Training Covered .**

Importance of Data warehousing and data mining, pre processing of the result data, how to use SPSS Clementine Tool and Online Lime survey for result analysis, calculation of success index and students feedback and survey for various purpose.

**Feedback & Analysis:** The participants learned how to use SPSS Clementine Tool and Online Lime survey for result analysis, calculation of success index and student's feedback and survey for various purpose 15 faculty members of college participated in the session.

**Outcomes:** Faculty members will be able to hands on SPSS Clementine Tool and Online Lime survey

  
Sandip S. Patil

Coordinator of the Training Session



**Report of ONE day Workshop on Syllabus Framing  
For TE / BE (Computer / Information Technology)**

**Date: February 13<sup>th</sup>, 2020**

A workshop on Syllabus Framing for TE (Computer / Information Technology) – As per AICTE Guidelines and BE (Computer / Information Technology), to be effective from 2020 – 21, was held on February 8<sup>th</sup>, 2020 at SSBT's College of Engineering & Technology, Bambhori, Jalgaon.

Following faculty members were present in the workshop.

<b>Sr. No.</b>	<b>Name of the Faculty Member</b>	<b>Name of the College</b>
1	Mr. Sagar U. More	Gangamai College of Engineering, Nagaon
2	Mr. Nitin P. Jagtap	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
3	Mr. Rohidas B. Sangore	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
4	Mr. Manish R. Tiwari	Gangamai College of Engineering, Nagaon
5	Mr. Sushant S. Bahekar	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
6	Mr. Sandip S. Patil	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
7	Mr. Dipak D. Bage	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
8	Mr. Pravin K. Patil	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
9	Ms. Priti R. Sharma	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
10	Ms. Yogeshwari S. Borse	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
11	Ms. Nilima P. Patil	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
12	Mr. Akash D. Waghmare	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
13	Ms. Shital A. Patil	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
14	Mr. Nitin Y. Suryawanshi	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
15	Prof. (Dr.) K. P. Adhiya	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
16	Mr. Manoj V. Nikum	SJRIT Institute of Technology, Dondaicha
17	Mr. Satpalsing D. Rajput	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
18	Prof. (Dr.) G. K. Patnaik	SSBT's College of Engineering & Technology, Bambhori, Jalgaon
19	Prof. (Dr.) U. S. Bhadade	SSBT's College of Engineering & Technology, Bambhori, Jalgaon

20	Mr. Hariom C. Agnihotri	SGD College of Engineering, Jalgaon
21	Mr. Prashant D. Shimpi	College of Engineering, NMKC, Jalgaon
22	Mr. Hiralal Bhaskar Solunke	G.H. R. Institute of Engineering and Management, Jalgaon
23	Mr. Harshal S. Patil	JIEMS College of Engineering, Akkalkuwa
24	Mr. Shaikh Sharique Ahmad	JIEMS College of Engineering, Akkalkuwa
25	Mr. Dinesh D. Puri	SSBT's College of Engineering & Technology, Bambhori, Jalgaon

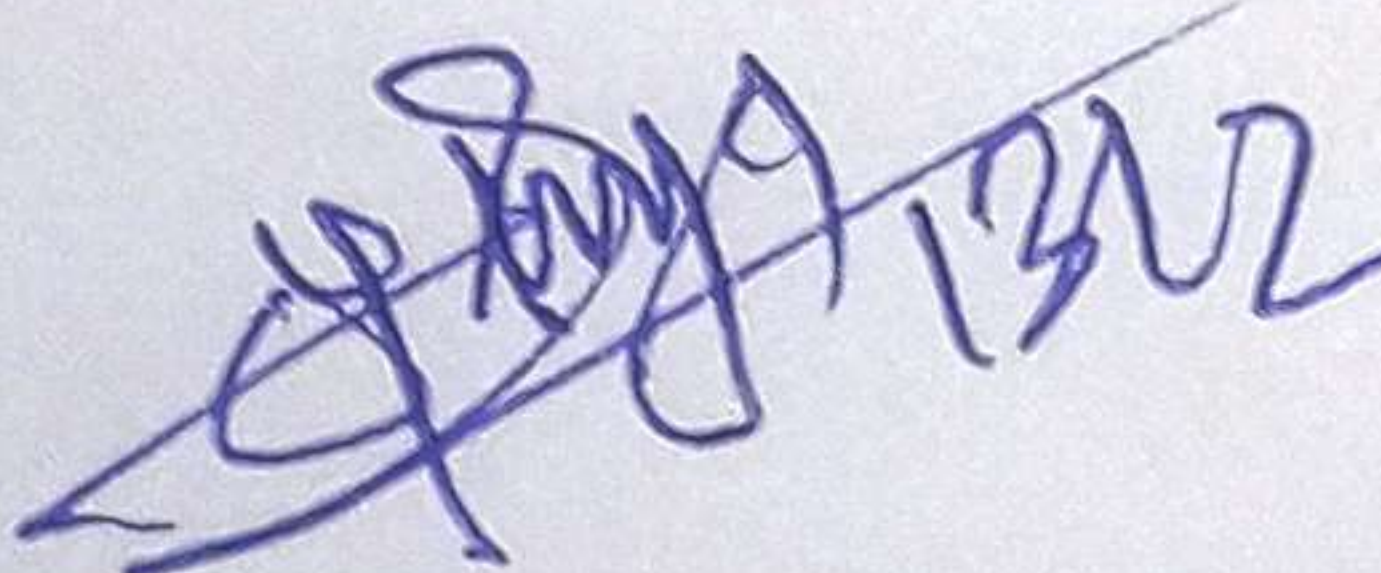
In the workshop, all the participants were appraised the structure and name of subjects at TE (Computer / Information Technology) – As per AICTE Guidelines and BE (Computer / Information Technology), to be effective from 2020 – 21.

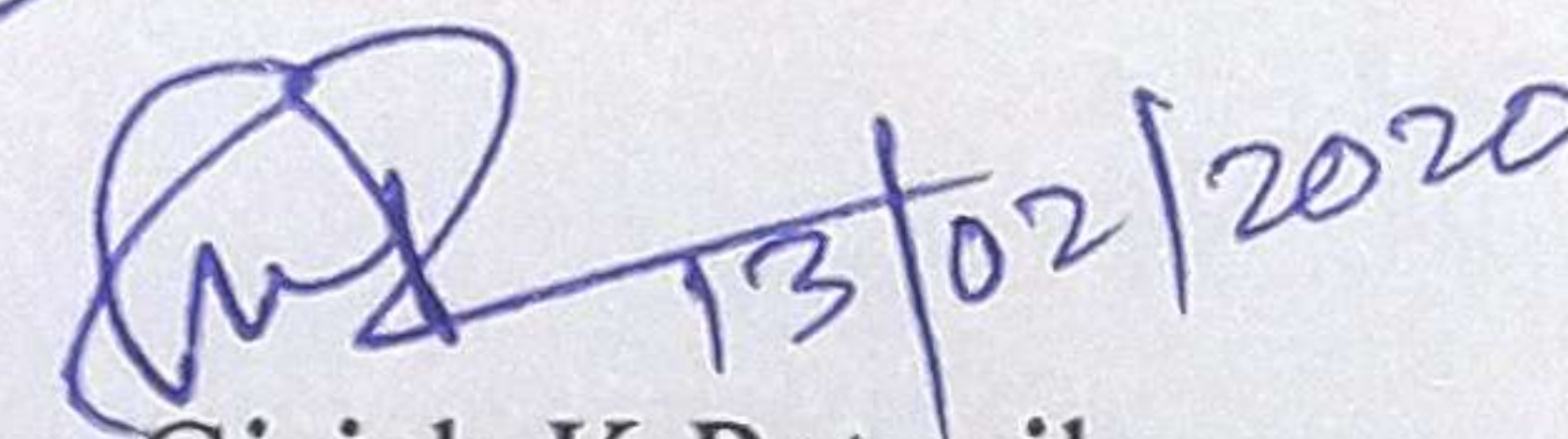
In the workshop, following suggestions by the participants were discussed.

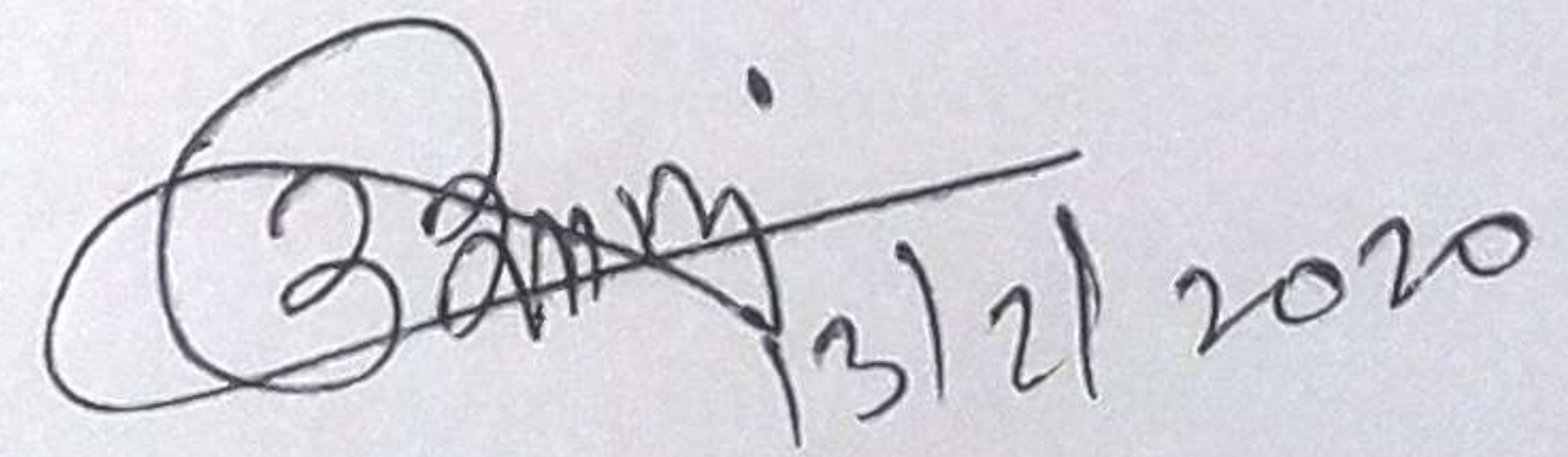
1. Dr. G. K. Patnaik, Dr. K. P. Adhiya and Dr. U. S. Bhadade appraised curriculum gap in the UG program and suggested to include syllabus contents accordingly.
2. Dr. G. K. Patnaik, Dr. U. S. Bhadade and Mr. Hariom C. Agnihotri highlighted the need of industry and suggested to include syllabus contents accordingly.
3. Dr. G. K. Patnaik, Dr. K. P. Adhiya and Dr. U. S. Bhadade discussed revised Bloom's Taxonomy and suggested to define course outcome accordingly.
4. Dr. G. K. Patnaik suggested providing options of Technology for students based on their learning interest.
5. Dr. K. P. Adhiya suggested that the subject "Advanced Operating Systems" as Professional Elective Course – III at Semester – VII should be shifted to Semester – VIII.
6. Dr. G. K. Patnaik suggested conducting ORAL examination for "Cyber Security Lab" in Semester – VIII instead of PRACTICAL examination.
7. Syllabus for "Essence of Indian Traditional Knowledge", as Mandatory Course in Semester – VII, is discussed and approved.
8. Dr. U. S. Bhadade suggested revising the syllabus of "Project Management" (Open Elective Course – II) in Semester – VI due to non availability of suggested text book.

All above suggestions are incorporated in the syllabus.

All participants expressed their satisfaction in the syllabus contents of TE (Computer / Information Technology) – As per AICTE Guidelines and BE (Computer / Information Technology), to be effective from 2020 – 21.

  
Dr. Krishnakant P. Adhiya  
Workshop Co-ordinator  
SSBT's COET, Jalgaon

  
Dr. Girish K. Patnaik  
Head, Deptt. of Computer Engg.  
SSBT's COET, Jalgaon

  
Dr. Umesh S. Bhadade  
Head, Deptt. of I. T.  
SSBT's COET, Jalgaon



Date :- 08/06/2020

To  
The Principal,  
SSBT COET,  
Jalgaon.

Permitted -  
KE

Subject:- Permission to conduction the online workshop on Awareness Program on MATLAB in Online Mode.

Respected sir,

Department of E&TC engineering under ISTE student chapter would like to organize the workshop on Awareness Program on MATLAB in Online Mode for the students between 12/06/2020 to 16/06/2020. In this regards give your permission to conduct the above mentioned programme in online mode.

Thank you

  
08/06/20

Dr. S. R. Surlkar  
Professor and Head  
E&TC Department



SSBT's College of Engineering and Technology, Bambhori, Jalgaon

## Department of Electronics and Telecommunication Engineering

### Invitation sent on whatsapp

Matlab Awareness Program in Online Mode

Greetings for the day !

Department of Electronics and Telecommunication Engineering, SSBT's College of Engineering and Technology, Bambhori, Jalgaon Maharashtra, is organizing MATLAB Awareness Program in online Mode from 12<sup>th</sup> June to 16<sup>th</sup> June 2020

Registration Link:

<https://forms.gle/gXR4r8NLDiCatx3R8>

Last date of Registration: 06/06/2020

Confirmation to the participants: 08/06/2020

Selection will be done based on First-Come-First Serve basis.

No registration fee for Program

Thanks and Regards.

Convenor

Dr. S. R. Suralkar

HOD, E&TC Department.

SSBT COET, Bambhori, Jalgaon.

Coordinator

Dr. P. H. Zope

Assistant Professor

SSBT COET, Bambhori, Jalgaon.

9860631040

NOTE: After getting registered do not forget to join the whatsapp group where we will post the regular updates of the Program and Communicate with you.

JOIN HERE:

WhatsApp link: <https://chat.whatsapp.com/BEk9gUH6iXMAb1cZTMmJdO>

# Department of Electronics and Telecommunication Engineering

Matlab Awareness Program

Conducted Online

Conducted between 12 June to 16 June 2020

Total Number of Participant -540

Organising Committee

Dr. S. R. Suralkar Professor and Head of E&TC Department

Dr. Navneet K. Patil Chairman ISTE Student Chapter SSBT COET Jalgaon

Dr. P. H. Zope Assistant Professor E&TC Department

Mr A. H. Karode Assistant Professor E&TC Department



# Department of Electronics and Telecommunication Engineering

## Matlab Awareness Program

Conducted Online

Conducted between 12 June to 16 June 2020

Total Number of Participant -540

Unique ID	Name of the participants		
		29	Anant Wasudeorao Nemade
1	Aadesh Devidas Patil	30	Anil Rajendra Chinchawade
2	Aarati Dattatraya Gavande	31	Anil Raju Mali
3	Aashi jain	32	ANKIT RAKESH KUMAR PATHAK
4	Aashish Anil Mandore	33	Ankita Mohan Shinde
5	Aayushee Ghanshyam Kamble	34	Anmol prakash kapadane
6	ABHIJIT BISWAS	35	Ansari Rehan Ahmed Mohammed Taufique
7	Abhishek dattatray javkar	36	Ansari saif Ali Ali Ahmed
8	Abhishek kopul	37	Anupama Gour
9	Abhishek Padmakar Narkhede	38	Anupriya Anil Bansodkar
10	Abhishek Singh Baghel	39	Anurag Kamalsingh Gahalod
11	Aditi Jain	40	Anusaya Vyankat Mugale
12	Aishwarya Dhote	41	Apurva shrikant Dusane
13	Aishwarya Dipak Jogi	42	Archana Gajanan Dhakare
14	Ajay Patil	43	Arti Mahendra Bhame
15	Ajay Vijaykumar Gupta	44	Aryan Pradeep Katiyar
16	Akshata Harish Badgujar	45	Asawari Harish Patil
17	Akshay B. Narkhede	46	Ashish Shivkumar Utage
18	AKSHAY GAJANAN THAKARE	47	Ashutosh Patil
19	Alane Madhukar Shesherao	48	Ashwini Bajirao kapse
20	Alistar Rebello	49	Ashwini dnyaneshwer kakde
21	AMALRAJ VICTOIRE T	50	Ashwini Sanjay Holkar
22	Amit Navinchandra Patel	51	Asi Khandelwal
23	AMITA GAUTAM	52	Atish Kharsan
24	Amod Girish Khandelwal	53	Avani Mahendra Pandit
25	Amodkar Chetan Vijay	54	Avinash Rajendra Patil
26	Amol Sanjay kadte	55	Bhagyashree bhikan patil
27	Amruta Pingale	56	Bhagyashri Rajkumar pawar
28	Anagha Chaudhari	57	Bhagyashri Sanjay Zope

58	Bhairavi Pravin bhole	99	Dnyanda Sharad mahajan
59	Bharati Anil Vairalkar	100	DNYANESH BALU LOHAR
60	Bhavana Krishna Patil	101	Dnyaneshwar Ramchandra Patil
61	Bhavanjali Milind Bimbe	102	Dnyaneshwar Ramnath Bambarde
62	Bhavesk vikas chavan	103	Dnyaneshwat Prakash Dhangar
63	Bhavsar Yash Rajendra	104	Dr A DEVENDRAN
64	Bhushan Chandrakant Behede	105	Dr Bhoopendra Nath Gupta
65	Bochare Mahesh Kantilal	106	Dr Dipak Patil
66	Chaitra Panat	107	Dr Manish Dixit
67	Chanchal kashyap	108	Dr Mohammed Abid Ali
68	Chandarika Sharma	109	Dr Punit Shrivastava
69	CHARUSHILA YADAV DHANDE	110	Dr Sanjay Asati
70	Chetali Asaram Bhirud	111	Dr. Capt.sanjay Singh kushwah
71	Chetan Ashok Thakur	112	Dr. K.P.Adhiya
72	CHETAN BHOJU CHAVAN	113	Dr. Madhuri Asati
73	Chetan patil	114	Dr. NAMDEV DEVIDAS PERGAD
74	Chetan Sonawane	115	Dr. Narendra Sukhadeorao Wadatkar
75	Chetan thakur	116	Dr. Neeraj Kumar Rathore
76	Darshana Anil Chaudhari	117	Dr. Sachin Nagorao Waghmare
77	DEVEN SAMBHAJI NAIK	118	Dr. SANJAY N. Patil
78	Deven Sanjay Mahajan	119	Dr. Vidya A
79	Devendra Nitin Wani	120	Dr.Dhananjay R.Dolad
80	Devendra Shamarao Mahajan	121	Dr.R.Kurinjimalar
81	Deveshri Bharat Kolambe	122	Dr.Ram Keshavrao Kanhe
82	Dhananjay	123	DR.SHRIKANT ULHAS CHAUDHARI
83	Dhanesh Subhash Patil	124	Ektashantaramfegade
84	Dhiraj Ajay Isane	125	Full Name
85	DHIRAJ KESHAVRAO BHANDARKAR	126	Gaikwad Vishal Maroti
86	Dhirajkumar Madhukar Suryawanshi	127	Ganesh Gulabrao Bhadane
87	Dhivya. M	128	Ganesh Sudhakar Jagushte.
88	DHRUV SANJAY DEORE	129	Gaurav Narayan Deshpande
89	Digrade Harshada Chaturlal	130	Gaurav Ramdas Patil
90	Diksha Sanjay Suryawanshi	131	Gauravi Katole
91	Dineshkumar U Adokar	132	GAWANDE TEJAS SANTOSH
92	DIPAK DEVCHAND BAGE	133	GHANSHYAM JANARDAN TIWARY
93	Dipali Ashok Avhad	134	Girase Sham Sahebrao
94	Dipti Ankush Patil	135	Girase Vishakha Bhatesing
95	Dipti Jigar Karani	136	Girija pramod lele
96	Dipti Vikas Patil	137	Girish Narendra phalak
97	Divyendu Hemant Patil	138	Girish satish khairnar
98	Diya Jain	139	Gopal Badgujar

140	harshal chandrakant chaudhari	181	KHAN SADIQUE ABDUL HAMID
141	Harshal Devidas patil	182	KHANDELWAL PRAMOD GIRISH
142	Harshal Narendra Apte	183	Khishat dhanraj sonawane
143	Harshal rajendra vispute	184	Kiran gangadharrao daf
144	Harshal Subhash Rane	185	Kiran Prakash Dhandare
145	Harshali Sunil Nikam	186	Kiran shekhar chaudhari
146	Hemangee Anil Ghuge	187	Kumbhar Kajal Ishwar
147	Hemansh Thakur	188	Kunal Chaudhari
148	Hemant Ashok Hadape	189	KUNAL JOHARLAL PARDESHI
149	Hemant Rajendra Nehete	190	Kunal patil
150	Hemlata Ratanlal Tak	191	Kunal Rajendra sulakshane
151	Himanshu Nikhil Mukhedkar	192	Kunal Thorat
152	HIRAL RAJKUMAR NARKHEDE	193	Kundan Sunil Patil
153	HITESH NITIN JADHAV	194	Lalit Kumar Bhawsar
154	Hitesh Suresh Deore	195	Laxman Mariba Bhojewar
155	Hole Suraj Tulshiram	196	Laxmi Mahadev Bhatkar
156	Indrayani Rajendra Birhade	197	Leena Liladhar Patil
157	Iram rahmat kadri	198	Lenin SB
158	Itisha sharma	199	Lokesh Sanjay Mahajan
159	J. MANOJ KUMAR.	200	MAHENDRA RAJENDRA BAGUL
160	JADA NAGESWARARAO	201	Mahesh Pratap Kanhere
161	Jadhav Manas Jitendrasing	202	Maheshkumar Patil
162	Jagdish Prajapat	203	Maheshwari R Patil
163	Jagruti Rajendra Patil	204	Mahima Anil Patil
164	Jay Mehta	205	Mahima Chaurasia
165	JAYESH YOGIRAJ BORASE	206	Malagonda. Sivakumar
166	Jayshree Subhash Sapkale	207	Mamta Vasudeo Payil
167	Jayshri Sanjay Patil	208	Manasi Vitthal Attarde
168	Jayshri Sudam Shitre	209	MANESH KAKASAHEB PAWAR
169	Jitendra Chaudhari	210	Mangesh Gaikwad
170	KAILAS	211	Manish Ananda Patil
171	Kajal Pandey	212	Manish Rajendra Chaudhari
172	Kalpana sukadeo ingale	213	MANOHAR M. GAYAKWAD
173	Kalpesh Bhagwat Nikam	214	Mansi jain
174	Kalyani Bhatu Patil	215	Mansi Rajendra Pande
175	Kanchan Ishvar suryawanshi	216	Mansi Sanjay Ghodke
176	Kartik sonal zawar	217	Mayur Khangar
177	Karuna kumwat	218	Mayur macchindra pawar
178	Kaustubh Subhash Sawant	219	Mayur Patharvat
179	KEDAR PRAKASH YEOLE	220	mayur wankhede
180	Khan Huzaifa	221	MAYURESH ARVIND PATIL

222	MEGALAN LEO L	263	NEHA VALMIK LADE
223	Meghana Gajanan Supe	264	Nikhil Chandrahas Khadke
224	Milind Rane	265	Nikhil Pramod Rane
225	Milind Ravindra Patil	266	Nikita Dilip Patil
226	Minakshi Ravindra Pawar	267	Nikita Shirish Bhangale
227	MINAL DHANRAJ PATIL.	268	Nilesh Bapu Mahajan
228	Miss. Ashwini Prakash Meshram	269	NILESH BIND
229	Mithun Patil	270	NILESH KAUTIK DESALE
230	Mohammad Rashid	271	Nilesh Khadse
231	Mohammad Shakir Mohammad Shaban	272	Nilesh Vilas Sapkal
232	Mohini Dnyaneshwar Jadhav	273	Nimisha dilip jaypatil
233	Mohit Meghshyam Chaudhari	274	Nirmalkumar Bharat Sonawane
234	Mohit Sunil Patil	275	Nisha Rajendra Patil
235	MOMIN RIZWAN AHMED JAMEEL AHMED	276	Nitin A. Sutar
236	MR KIRAN BABAJIRAO SALUNKE	277	Pallavi Satao
237	Mr. Dilip Ramkrishna Rangari	278	PALLETI VENKATA KUSUMA
238	MR. GAJANAN UTTAM PATIL	279	Pande Amareshwar Manohar
239	Mr. Gaurav Yashwant Tawde	280	Pankaj Divakar Mahajan
240	Mr. Naveen Kumar	281	Pankaj Jadhav
241	Mr. Vijaykumar Sidramappa Biradar	282	Pankaj Patil
242	Mrs. Ashwini Sujit Yadav	283	Pankaj Ramesh Ambilduke
243	MRS.DEVANGI.J JAIN	284	Pankaj Rangarao Patil
244	Ms. Girija Mansing Anuse	285	PANKAJ SHRAVAN WAGH
245	Mudita Jain	286	Parag Bhalchandra Musale
246	Muskan Sushil Mandhan	287	parag bhatu patil
247	Nachiket Devidas Nerkar	288	PARAG MANOJ SARAF
248	Nadeem Akhtar	289	Parag narayan sutare
249	Nairuti Mehta	290	Pardhi Renuka Rameshvar
250	Naman Shah	291	Pasumarthi Harsha vardhan
251	Namrata Jagadish deore	292	Patil Abhishek bhaskar
252	NANDKISHOR CHHAGAN PATIL	293	Patil Manoj Rajan
253	Nandlal Dnyaneshwar Patil	294	PATIL SAKSHI RAJESH
254	Narendra Gokul Patil	295	PATIL SHUBHAM PRALHAD
255	Narottam dutt upadhyay	296	PATIL VISHNURAM SOPAN
256	Navnath Dnyanoba Kakde	297	Pavan Bhagwan Gite
257	Nayana Ramesh Patil	298	Pavan Chandrakant birari
258	Neha dilip Mahajan	299	Pavan Santosh Dandge
259	NEHA KHARE	300	pavan sunil chaudhari
260	Neha Onkar Patil	301	Pawar Nitin Suresh
261	Neha Shailendra Mandage	302	PAWARA ROHIDAS LULA
262	Neha soni	303	PAWARA YOGESHWAR PRATAP

304	Payal anil jagtap	345	Prof. Pankaj P. Awate
305	Payal Jitendra Bhosale	346	Prof. Pornima N. Marawar
306	Payal R. Narvekar	347	Puja dagadu jogi
307	Piyush Dinesh Zawar	348	Punam Santosh Gangatire
308	Pooja Arun Aswar	349	PUNDLIK NIWRUTTI PATIL
309	Pooja Laxman shinkar	350	Pushpak Samadhan Lule
310	Pooja Mahajan	351	Rahmani Naveed Akhtar
311	Pooja santosh mali	352	Rahul Bharat Sagar
312	Pooja vilas Dhavale	353	Rahul Mahadev Dhakne
313	Pooja Vitthal Gavande	354	RAJA GURU B
314	Poonwm Dnyaneshwar Jagtap	355	RAJASHRI SANJAY PATIL
315	Prachi Subhash Patil	356	Rajat Bhise
316	Pradeep Mohansingh Solanki	357	Rajesh Tryambakrao Aghao
317	Prajakta hiralal patil	358	Rajeshwari Ravindra Misar
318	PRAJAKTA PRABHAKAR PATIL	359	RAJINDER KUMAR
319	Prajwal Nanabhau Khaire	360	Rajkumar Rajoria
320	Prakash Mahindra Gaikwad	361	Rajput Satpalsing Devising
321	Pranjali Rajendra Bhutada	362	Rajshree uttam Kakade
322	Prankit Pralhad Patil	363	Ranjan Bala Jain
323	prasad	364	Rashi Rajesh Kabara
324	Prasad Junnarkar	365	Ravi Bhaskar Kalyankar
325	Prashant Pralhad Kharche	366	Ravindra Radhakrishna Joshi
326	PRASUN SANKI	367	Renuka chandrakant sapkal
327	Prathamesh Ganesh Choudhary	368	Reshma Baban Shinde
328	Pratibha Manohar Nimbolkar	369	Richa Pandey
329	Pratik Sharad Chirmade	370	RIHANA JAMADAR
330	Pratik Tukaram Patil	371	Rinisha Bagaria
331	Pratilsha Sudhakar Tayade	372	Rita Pradip patil
332	Prayag Jaywant Vishe	373	Ritesh Adhikar Borase
333	Preeti Yadav	374	Ritesh Suresh Borole
334	Prerana patil	375	Ritik Anilkumar Chaurasiya
335	Prerana Satish Patil	376	Rohan prakash Motipawale
336	Priti Ramesh Sharma	377	Rohan Rajendra Musale
337	Priya Sanjay Bichave	378	Rohankumar Prabhakar Patil
338	Priyadarshini Sopan Patil	379	Rohit Ankush Patil
339	Priyanka Avinash Patil	380	ROHIT RAJENDRA PINGALE
340	Priyanka Kamalakar Bhole	381	Rohit yuvaraj borase
341	Priyanka Karjal (Panji)	382	ROSHAN KADOBA CHAUDHARI
342	Priyanka Suresh Deore	383	Rucha Sharad Chaudhari
343	Prof P.D.Kulkarni	384	Ruchi jayaswal
344	Prof. Padmashri V Balikayi	385	Rupali Janardhan Sonawane

386	Rupesh naik	427	Shankar Raghunath Patil
387	Rutuja Bonde	428	SHARAYU MAHENDRA BANAIT
388	Rutuja Chandrakant Patil	429	Shiju Samuel
389	S.Jayanthi	430	Shilpa Anjan
390	S.Pushparaj	431	SHIVAM BHASKAR KASTURE
391	S.Yogalakshmi	432	Shivam Dongre
392	Sachin Dattarao Dorale	433	Shivam Mishra
393	Sachin nitin puranik	434	Shobha Lolge
394	SADANAND DADU HARALE	435	Shraddha hemantkumar sonawane
395	SADDAM HUSAIN	436	Shradha Dubey
396	Sagar Dattatray Shimpi	437	shreya kiran mahajan
397	Sagar Joshi	438	Shreya Pratap Yadav
398	Sagar Patil	439	Shruti Bipin Pathar
399	Sahil Kailas Dhawale	440	Shruti Nitin Chaudhari
400	Sahil yashwant kamble	441	Shruti Ravindra Mali
401	Sakshi pradip jaiswal	442	Shrutika Sunil Shahu
402	Salomi R Marak	443	Shubham Anil mandlik
403	Samiksha Atul lathi	444	Shubham Rajendra Patil
404	Samruddhi shirish patil	445	Shubham Sharma
405	Sandip Shankarrao Patil	446	SHUBHANGI SHIVAJI PAWAR
406	Sanjana Gangasagar	447	Shubhangini Ganesh Patil
407	Sanjana manoj Kabara	448	Shveta Sandip Garud
408	Sanjay Sadashio Gharde	449	Shweta Samratsingh Parihar
409	Sanket Dattusing Patil	450	Shweta Sunilkumar Patil
410	Sanket Devidas Patil	451	SHYAM SUNDER KARMA
411	Sanket Umesh Shrawagi	452	Siddharth Madabhavi
412	Santoshchand Ramdayal Agrawal	453	Siddhesh Arvind Solanke
413	Sarika suresh shelake	454	sivachandra k
414	Sarita Pritesh Jain	455	Sohan M. Patil
415	SATSWARUP BABASAHEB NAGTILAK	456	Sohan Rane
416	Saurabh Anil Talele	457	SONAR VINAYAK GAJANAN
417	Saurabh bharat panpat	458	Sourabh Sharma
418	Saurav Bawaskar	459	SOVANJIT MOHANTY
419	SAURAV SANJAY GHODKE	460	SSBT COET's, jalgaon
420	Sayali Dhake	461	Sudeshana pandit torawane
421	Sayali Hemant Patil	462	Sumit Kailas Dasare
422	Sayyad shadab sayyad naim	463	Sumit Rajendra Patil
423	SHAHID ALI ISHTIYAQUE AHMED	464	SUNIL KISHOR KHODE
424	Shaikh Shaker Shamad	465	Sunil Lodha
425	Shaikh Umer Aif	466	Supriya Pramod Khapre
426	Shailaja Anil Chaudhari	467	SURABHI SUSHANT SAWANT

468	Suraj chandrakant chandankar	505	Vaishnavi Bhausheeb Pakhare
469	Suraj kailas khedkar	506	Vaishnavi kishor Mahajan
470	Suresh Ashok Annadate	507	Vaishnavi Sanjay Nerkar
471	Sushma S. Gadekar	508	Varalakshmi sudha
472	Suvarna Rajendra Patil	509	Varsha S Tandale
473	Suyash Prafulla Patil	510	Veeresh kumar S
474	Swastik Banerjee	511	VEMPALLERAFI
475	Swati Hemant Shinde	512	Vijay Bhagawan Nerkar
476	Sweetly Vitthal Dhole	513	Vijay Dattatray Chaudhari
477	Syed shoebuddin syed shoebuddin	514	Vijay Magan Patil
478	Tanay Sharad Bhandarkar	515	Vikas Kaluram Koli
479	TANMAY ANIL SANGHVI	516	Vikas Somankar
480	Tejas Galu Patil	517	Vikrant Satish Patil
481	TEJAS KOSHTI	518	Vina Khairnar
482	Tejas Madanlal Joshi	519	Vinit santosh surve
483	Tejas sachin bhole	520	Vishal bhagwan Jadhav
484	Tejashri Avinash Narkhede	521	VISHAL BHARAT JAVARE
485	Tejaswini Ganesh Patil	522	Vishal Chaudhary
486	Tejaswita Sanjay Patil	523	Vishal dilip bharambe
487	Trupti Prabhakar Suryawanshi	524	Vishal Sanjay Gorade
488	Trupti Rajendra Patil	525	Vishal Sharad Amodkar
489	Tushar Shreekant Chaudhari	526	Vishal Sitaram Sambre
490	Tushar Suresh Magare	527	Vishwajit Gopichand Rajput
491	UDAY MAHENDRA KULKARNI	528	Vishwambhar Ganeshrao Joshi
492	Uddesh more	529	Vivekanand Dattatray Gund
493	Umakant Bapu Jadhav	530	Vrushali Jagannath Baisane
494	Umesh Prakash Thakur	531	VSKV Harish
495	Upendra R Saharkar	532	Walmik Dharmaraj Patil
496	Utkarsh Kamalakar Pawar	533	WALSA EBENEZER E
497	Utkarsha Ravindra Dhande	534	Yamini jadhav
498	Vaibhav ajay deore	535	Yatish Subhod Gujarathi
499	Vaibhav Sanjay Bichave	536	Yogesh Ramchandra Thakur
500	Vaibhav Satish Bharambe	537	Yogita
501	Vaibhav Suryakant Kasar	538	Yogita Manohar Hiwale
502	Vaishnavi Anil Talele	539	YUGENDRA VILAS NARKHEDE
503	Vaishnavi ashok Patil	540	Yuvraj Jayalal Chavan
504	VAISHNAVI ASHOK PATIL		

**SSBT's College of Engineering & Technology, Bambhori, Jalgaon**

Date: 20-06-2020

**Completion report of Awareness Program on MATLAB conducted by Department of  
E&TC under ISTE student chapter in online mode**

The Department of E&TC under ISTE student chapter conducted successfully the five days Awareness Program on MATLAB between 12/06/2020 to 16/06/2020.

We have around 540 Participant who have registered and joined for this program from different states of India. In this program we have used whatsapp groups medium to provide the daily assignment based on MATLAB, study material, books and youtube video along with Url link so the student can watch the video and do the practical based on the given assignment as well as quiz is conducted based on the given study material through the online google form link.

Er. N. K. Patil, Chairman of ISTE student chapter SSBT's COET., taken lot of initiative to conduct and organize the program in online mode in the pandemic situation. He also supports us in the preparation of Quiz google form link, editing of video, sharing of notes etc.

Er. A. H. Karode prepared the quiz result and certificates; also he communicated many students from the different region of the state and other state to solve their practical difficulties and problem.

Dr. P. H. Zope conducted the Awareness Program on MATLAB course objectives and all five days video, assignment, study material and provided collection of online books and URL link among the student groups.

I especially very much thankful to our Head of the Department Dr. S. R. Suralkar, his continuous support for the organizing and conduction of programme.

I am very much thankful to Chairman Governing Body Hon'ble Shri Raosaheb Shekhawat, who has been the driving force behind the whole process and that's why I complete this programme in online mode successfully.

I would like to express my sincere thanks and convey my gratitude towards Dr. K. S. Wani Principal and Dr. S. P. Shekhwat, Vice Principal of our Institute who has given us inspiration and all necessary support time to time for organizing this program and providing such platforms to enhance our technical knowledge and skills.

Thanking you



Dr. P. H. Zope  
Coordinator

Assistant Professor, E&TC Deptt.

**Academic Year**  
**2020-21**

# DEPARTMENT OF COMPUTER ENGINEERING

Shram Sadhana Bombay Trust's

COLLEGE OF ENGINEERING & TECHNOLOGY

Bambhori, Post Box.No.94, JALGAON - 425 001 (MS)

Phone No.: 0257-2258391/93/94/95 Ext 214, Fax:0257-2258392

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



Ref. No.:

Date:

Date: 06/11/2020

To,  
The Principal,  
SSBT's College of Engg. & Tech.  
Bambhori, Jalgaon

Subject: Report of workshop

Respected Sir,

Department of Computer Engineering conducted a workshop on "How to conduct ISE using Google Forms?" online through Microsoft Teams on 05/11/2020 from 4 pm to 5 pm. The objective of the workshop was to enable all faculty members to conduct MCQ based ISE – II through Google Forms. Total 71 faculty members participated in the workshop.

The workshop was conducted by Mr. Sushant S. Bahekar (Asst. Professor) & Mr. Pravin K. Patil (Asst. Professor) of Computer Engineering department and following topics were delivered through live demonstration.

1. Creating a Google form for exam.
2. Adding General settings to conduct quiz / exam.
3. Collecting basic information of students
4. Adding questions with options in Google form.
5. Shuffling questions and options / choices in Google form.
6. Assigning marks to correct answer.
7. Storing all the responses in a separate Spread sheet.
8. Sharing the Google form link with students.
9. Enabling/ Disabling the Accepting Response Option in Google form
10. Sharing score with Answers submitted by student and the correct answer

A user manual for "How to conduct ISE using Google Forms?" is also prepared and circulated among all faculty members.


This is for your kind information.

Thanking you.

With regards

  
(Dr. Girish K. Patnaik)  
Professor & Head

Noted.

  
6/11/2020

**Vision:** To emerge as the leading Computer Engineering department for inclusive development of students.  
**Mission:** To provide student-centered conducive environment for preparing knowledgeable, competent and value-added computer engineers.

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Bambhori, Post Box.No.94, JALGAON - 425 001 (MS)

Phone No.: 0257-2258391/93/94/95 Ext 214, Fax:0257-2258392

Web: <http://www.ssoetjalgaon.ac.in>



Ref. No.:

Date:

Date: 03/12/2020

To,  
The Principal,  
SSBT's College of Engg. & Tech.  
Bambhori, Jalgaon

Subject: Report of workshop

Respected Sir,

Department of Computer Engineering conducted a workshop on "Video Editing" online through Microsoft Teams on 02/11/2020 from 3.30 pm to 4.30pm. The objective of the workshop was to enable all faculty members to prepare and edit videos about college, department & subjects. Total 63 faculty members participated in the workshop.

The workshop was conducted by Mr. Nitin Y. Suryawanshi (Asst. Professor, Computer Engineering) & Mr. Tejas G. Patil (Asst. Professor, Mechanical Engineering) and following topics were delivered through live demonstration.

1. Video Editing Using Android App: Youcut App
2. Video Editing using Online Websites:
  - a. Trim and Crop Video & Audio, Join Audio
  - b. Remove, Extract and Add Audio in a video
  - c. Video file format converter
  - d. Video file compressor

A handout for "Video Editing" is also prepared and circulated among all faculty members.

This is for your kind information.

Thanking you.

With regards

(Dr. Girish K. Patnaik)  
Professor & Head

*Noted. Very Good Work.*  
*K*  
*3.12.2020*

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# DEPARTMENT OF COMPUTER ENGINEERING

Shram Sadhana Bombay Trust's

COLLEGE OF ENGINEERING & TECHNOLOGY

Bambhori, Post Box.No.94, JALGAON - 425 001 (MS)

Phone No.: 0257-2258391/93/94/95 Ext 324, Fax:0257-2258392

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



Ref. No.:

Date:

Date: August 7, 2020

## NOTICE

In order to facilitate all our stake holders for online teaching & learning, we have organized live sessions on "Course Management in MOODLE" for all faculty members of our college. Details of sessions are as follows.

<b>August 10, 2020, 4 PM, Day1 (30 min)</b> <b>Course Layout</b> <ul style="list-style-type: none"><li>• Topic wise / Weekly</li><li>• Add PO, PSO,CO, CO-PO Mapping, CO-PSO Mapping</li></ul>	<b>August 11, 2020, 4 PM, Day2 (30 min)</b> <b>Adding Resources to Course</b> <ul style="list-style-type: none"><li>• File</li><li>• Folder</li><li>• Page</li><li>• URL.</li></ul>
<b>August 12, 2020, 4 PM, Day3 (30 min)</b> <b>User Management</b> <ul style="list-style-type: none"><li>• User Enrolment method</li><li>• Attendance<ul style="list-style-type: none"><li>○ Adding Session / Multiple Sessions</li><li>○ Filling Attendance</li><li>○ Downloading the Report in Excel</li></ul></li></ul>	<b>August 13, 2020, 4 PM, Day 4 (30 min)</b> <b>Adding Activities to Course</b> <ul style="list-style-type: none"><li>• Assignment<ul style="list-style-type: none"><li>○ Uploading the Assignment</li><li>○ Grading the Assignment</li></ul></li><li>• Forum</li><li>• Quiz<ul style="list-style-type: none"><li>○ Uploading the Question Bank</li><li>○ Creation of Quiz</li><li>○ Conduction of Quiz</li></ul></li><li>• Statistics</li></ul>
<b>Resource Persons:</b> Dr.Girish Kumar Patnaik, Professor, Department of Computer Engineering Dr. Manoj E. Patil, Associate Professor, Department of Computer Engineering	
<b>Tool for the virtual session:</b> Cisco WebEx, Meeting ID <b>1667864806</b>	
<b>Ethics &amp; Code of Conduct:</b> Name in Profile should be your own Full Name, Mic and Camera should be OFF	
<b>Outcome:</b> Course page and uploading of all resources in MOODLE should be completed by August 27 <sup>th</sup> , 2020. There should not be any issues related to plagiarism and copy rights.	

All faculty members are requested to join the sessions.

  
(Dr. Girish K. Patnaik)  
Professor & Head  
Director of Academic Development

**Vision:** To emerge as the leading Computer Engineering department for inclusive development of students.  
**Mission:** To provide student-centered conducive environment for preparing knowledgeable, competent and value-added computer engineers.

0-111  
111

Date	Number of Participants		
	SSBT, Jalgaon	VBMV, Amaravati	Total
10-Aug-20	76	71	147
11-Aug-20	56	48	104
12-Aug-20	66	33	99
13-Aug-20	60	31	91

# DEPARTMENT OF COMPUTER ENGINEERING

Shram Sadhana Bombay Trust's  
**COLLEGE OF ENGINEERING & TECHNOLOGY**  
 Bambhori, Post Box.No.94, JALGAON - 425 001 (MS)  
 Phone No.: 0257-2258391/93/94/95 Ext 324, Fax:0257-2258392  
 Web: <http://www.sscoetjalgaon.ac.in>




Ref. No.:

Date:

Date: 06/08/2020

To,  
 The Principal,  
 SSBT's College of Engg. & Tech.  
 Bambhori, Jalgaon

*Permitted*  
  
 06/08/xx

Subject: Permission to conduct live session on MOODLE

Respected Sir,

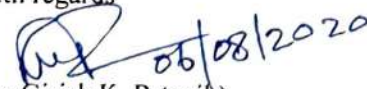
In order to facilitate all our stake holders for online teaching & learning, we would like to conduct live session on "Course Management in MOODLE" through Cisco WebEx for all faculty members of our college. The session will be conducted by Dr. Manoj E. Patil, Associate Professor, Department of Computer Engineering. Details of sessions are as follows.

<p><b>August 10, 2020, 4 PM, Day1 (30 min)</b>  <b>Course Layout</b></p> <ul style="list-style-type: none"> <li>• Topic wise / Weekly</li> <li>• Add PO, PSO, CO, CO-PO Mapping, CO-PSO Mapping</li> </ul>	<p><b>August 11, 2020, 4 PM, Day2 (30 min)</b>  <b>Adding Resources to Course</b></p> <ul style="list-style-type: none"> <li>• File</li> <li>• Folder</li> <li>• Page</li> <li>• URL.</li> </ul>
<p><b>August 12, 2020, 4 PM, Day3 (30 min)</b>  <b>User Management</b></p> <ul style="list-style-type: none"> <li>• User Enrolment method</li> <li>• Attendance                             <ul style="list-style-type: none"> <li>○ Adding Session / Multiple Sessions</li> <li>○ Filling Attendance</li> <li>○ Downloading the Report in Excel</li> </ul> </li> </ul>	<p><b>August 13, 2020, 4 PM, Day 4 (30 min)</b>  <b>Adding Activities to Course</b></p> <ul style="list-style-type: none"> <li>• Assignment                             <ul style="list-style-type: none"> <li>○ Uploading the Assignment</li> <li>○ Grading the Assignment</li> </ul> </li> <li>• Forum</li> <li>• Quiz                             <ul style="list-style-type: none"> <li>○ Uploading the Question Bank</li> <li>○ Creation of Quiz</li> <li>○ Conduction of Quiz</li> </ul> </li> <li>• Statistics</li> </ul>

So therefore we request you to kindly permit us for the same.

Thanking you.

With regards

  
 (Dr. Girish K. Patnaik)  
 Professor & Head

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**Mission:** To provide student-centered conducive environment for preparing knowledgeable, competent and value-added computer engineers.



Report on  
**Course Management in MOODLE**  
Under the MoU with

**S.S.B.T.'s College of Engineering & Technology, Bhambhori, Jalgaon**  
from 10<sup>th</sup> to 13<sup>th</sup> August, 2020

**Introduction:**

Vidya Bharati Mahavidyalaya has established itself as an institution which provides quality education to students. The college recognizes the importance of ICT enabled teaching-learning as a prodigious tool to provide student oriented teaching-learning.

**Objective:**

In this regards, the college is committed to upgrade the knowledge and skills of the faculty members to embrace student centric contemporary pedagogical methodologies. Therefore, the college organized a four day live sessions on “**Course Management in MOODLE**” in collaboration with S.S.B.T.'s College of Engineering & Technology, Bhambhori, Jalgaon (hereafter, S.S.B.T.'s COET, Jalgaon) from 10<sup>th</sup> to 13<sup>th</sup> August, 2020 through Cisco WebEx as an online platform.

**Details of workshop:**

The resource persons for the sessions were Dr. Girish Kumar Patnaik (Professor and Director, Academic Development) and Dr. Manoj E. Patil, Associate Professor, Department of Computer Engineering, S.S.B.T.'s College of Engineering & Technology, Bhambhori, Jalgaon. Further details regarding the event are as follow:

Platform: **Cisco WebEx**

Webex Meeting ID No.: **1667864806**

**Day-1:** 10<sup>th</sup> August, 2020 Time: 4 P.M. (30 Min)

**Topic:** Course Layout

**Total Number of Participants = 147**

**S.S.B.T.'s COET, Jalgaon = 75**

**V.B.Mv., Amravati = 72**

**Day-2:** 11<sup>th</sup> August, 2020 Time: 4 P.M. (30 Min)

**Topic:** Adding Resources to Course

**Total Number of Participants = 105**

**S.S.B.T.'s COET, Jalgaon = 57**

**V.B.Mv., Amravati = 48**

**Day-3:** 12<sup>th</sup> August, 2020 Time: 4 P.M. (30 Min)

**Topic:** User Management

**Total Number of Participants = 99**

**S.S.B.T.'s COET, Jalgaon = 66**

**V.B.Mv., Amravati = 33**

**Day-4:** 13<sup>th</sup> August, 2020 Time: 4 P.M. (30 Min)

**Topic:** Adding Activities in Course

**Total Number of Participants = 91**

**S.S.B.T.'s COET, Jalgaon = 60**

**V.B.Mv., Amravati = 31**

**Outcome:**

The workshop was useful for the participants to gain the knowledge and understanding of using MOODLE for academic purpose, thereby increasing their ICT proficiency. The sessions were interactive in nature and a good number of participants shared their queries and issues with the resource persons. In response, the resource person gave nice and easy solutions to the queries and issues shared by the participants.

**Future Perspectives:**

The College is ardent to organize such thriving events in collaboration in future for the betterment of the two institutions.



Director

S.S.B.T.'s College of Engineering  
& Technology, Bhambhori,  
Jalgaon

**PRINCIPAL**

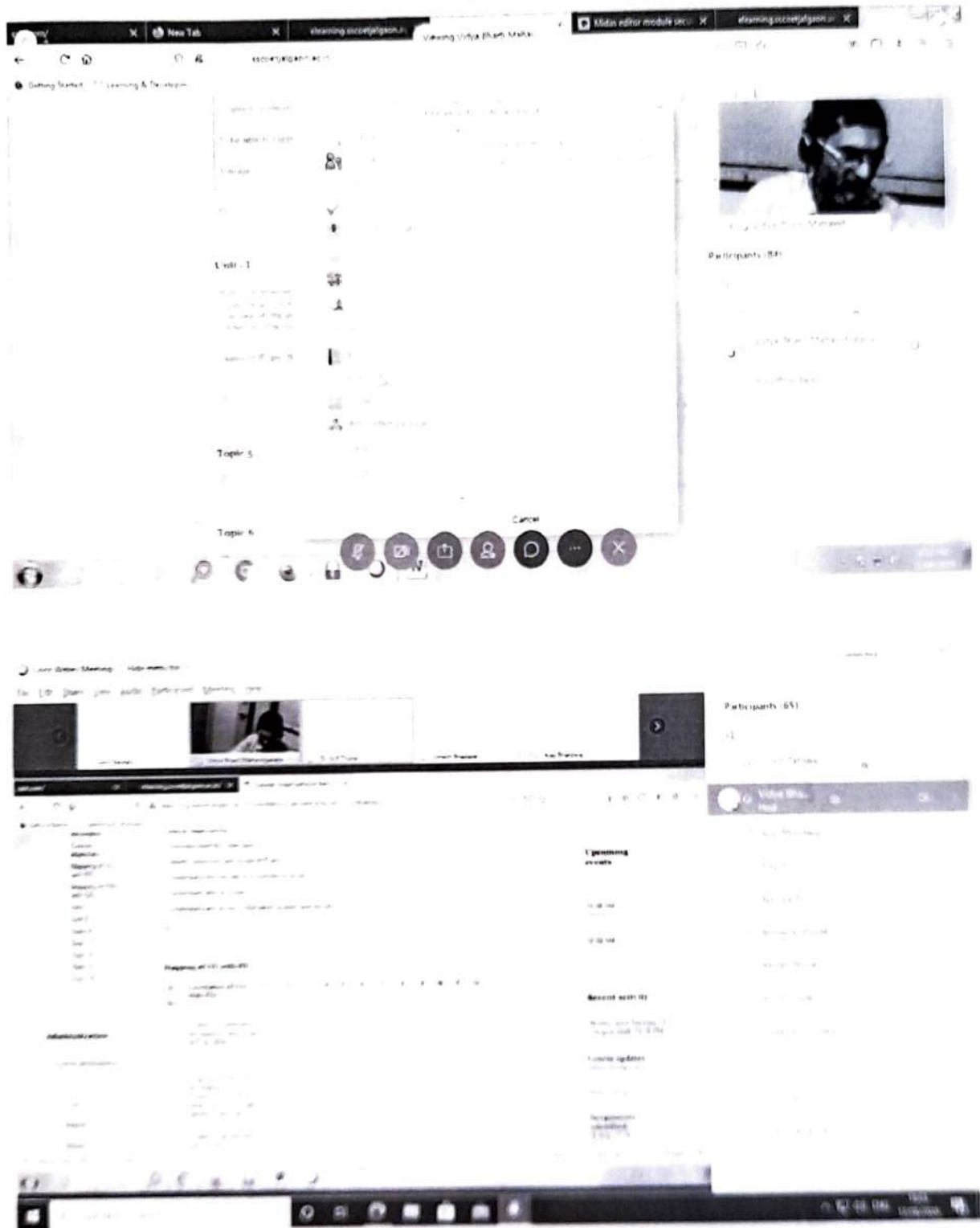
SSBT's College of Engineering & Technology  
Bambhori, Jalgaon-425001(M.S.)



Principal

Vidya Bharati Mahavidyalaya,  
Amravati

### Activity Photos:



Navigation

Enrolled users

Enrolled users	Enrollment methods	Enrollment methods
Ajay Dhanraj ajay.dhanraj@vidya.com	22 hours 45 mins	Manual enrollment from Course: 28 Aug 2020 11:00 AM
Ajay Patil ajay.patil@vidya.com	24 mins	Manual enrollment from Course: 28 Aug 2020 12:00 AM
Ajay Waghmare ajay.waghmare@vidya.com	51 mins 14 secs	Manual enrollment from Course: 11 August 2020 11:00 AM
Amritha Raju amritha.raj@vidya.com	None	Manual enrollment from Course: 11 August 2020 12:00 AM
Archna Shinde archana.shinde@vidya.com	None	Manual enrollment from Course: 11 August 2020 12:00 AM
Ashish Shinde ashish.shinde@vidya.com	None	Manual enrollment from Course: 11 August 2020 12:00 AM
Ashish Patil ashish.patil@vidya.com	None	Manual enrollment from Course: 11 August 2020 12:00 AM
Ashish Kulkarni ashish.kulkarni@vidya.com	None	Manual enrollment from Course: 11 August 2020 12:00 AM

- Vidya Bhalu (Host)
- Ajay Dhanraj
- Ajay Patil
- Ajay Waghmare
- Amritha Raju
- Archna Shinde
- Ashish Shinde
- Ashish Patil
- Ashish Kulkarni

Navigation

Adding a new Assignment to Unit 2

Assignment name: assignment 1  
Description: Write the answers of following questions  
1. What is the need of Organizational Behaviour?  
2. List out the factors affecting the progress of the organization?

Display description on course page

Allow submissions from: 12 Aug 2020 11:00 AM to 11 Aug 2020 11:00 AM  
Due date: 18 Aug 2020 11:00 AM  
Cut off date: 18 Aug 2020 11:00 AM

- Girish Patil (Host)
- Vidya Bhalu (Host)
- Ajay Patil
- Ajay Waghmare
- Amritha Raju
- Archna Shinde
- Ashish Shinde
- Ashish Patil
- Ashish Kulkarni
- Archna Shinde
- Ashish Shinde





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

**Report of online session on**  
**“How to Schedule Microsoft Teams Meeting”**

In view of COVID – 19 pandemic, online teaching has become an integral part of every faculty member to avoid any learning loss of students. The institute has subscribed Microsoft Teams to facilitate faculty members for online teaching. Though the faculty members of the institute are quite familiar with online teaching using Microsoft Teams, the institute has focused more on interaction with students through online platforms for better understanding of topics and as well for counseling.

Keeping in view of this the Department of Computer Engineering has organized an online session on “How to Schedule Microsoft Teams Meeting” for all faculty members of the institute on February 17, 2021 at 4 PM. Resource person for the session is Prof. Girish Kumar Patnaik, HoD, Department of Computer Engineering. 77 faculty members of the institute attended the session.

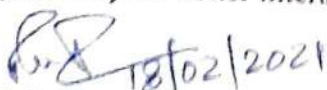
**Objective:** To increase interaction with students through Microsoft Teams.


The resource person demonstrated live the following using Microsoft Teams.

- Sign In to Microsoft Teams
- Identifying & selecting Teams / Groups
- Scheduling weekly classes (meetings) as per timetable
- Cancelling scheduled classes (meetings)
- Meeting options for scheduled classes (meetings)
- Calendar View of scheduled classes (meetings)
- Joining Class (meeting)
- Sharing Screen
- Sharing Whiteboard
- Overview of other Microsoft Products (Word, Power point, Excel etc.) subscribed by the institute
- Sign Out

The session ended with brief question & answer. All participants expressed their satisfaction and the resource person, Prof. Girish Kumar Patnaik, also expressed thankfulness to all the participants for attending the session.

**Outcome:** Faculty members will be able to Schedule Microsoft Teams Meeting independently for better interaction with students.

  
18/02/2021  
Head, Department of Computer Engineering  
Organizer

Noted.  
  
18-2-2021



SSBT's College of Engineering and Technology,  
Jalgaon, INDIA invites you to



# ONE DAY INTERNATIONAL ONLINE SEMINAR FOR STUDENTS

**Theme: Energy Transition and Energy  
technologies**

**May 29, 2021  
9:00 A.M. IST  
Online meeting via  
Zoom**

**Speaker:**  
**Ms. Atwongyeire Jane Rose**  
Geoscientist,  
Prince of Songkla University, Thailand

- **No Registration fees**
- **Register today at**  
<https://forms.gle/ybMziv3EsNwALmU66>
- **E-certificates will be given to registered participants, who will attend**
- **For more information please contact**  
**Dr. P. J. Shah: +91-9890094045**  
**Mr. A. C. Wani: +91-9850082361**



**Mr. A. C. Wani**  
ETESA Co-ord

**Dr. P. J. Shah**  
Convener

**Dr. S. R. Suralkar**  
HOD

**Dr. K. S. Wani**  
Principal

Organized By:

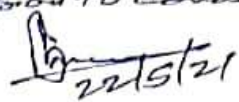
**SSBT's College of Engineering and Technology, Jalgaon, India**  
Electronics & Telecommunication Engineering Students Association (ETESA),  
Electronics & Telecommunication Engineering Department.

Permitted.  


Date: 22/05/2021

To,  
The Principal,  
SSBT's College of Engineering & Technology,  
Bambhori, Jalgaon

Through: HOD, E&TC departments

*Recommended for permission to conduct  
Int. online seminar*  
  
22/5/21

**Subject:** Permission to organize one day International online Seminar on “Energy Transition and Energy Technologies” by Ms. Atwongyeire Jane Rose, Prince of Songkla University, Thailand for students.

Respected Sir,

ETESA of Electronics & Telecommunication Engineering Departments willing to organize one day International online Seminar on “Energy Transition and Energy Technologies” by Ms. Atwongyeire Jane Rose, PSU Energy System Research Institute, Prince of Songkla University, Hat Yai, Songkhla, Thailand for students on Saturday, 29<sup>th</sup> May, 2021 at 9:00 AM (Indian Standard Time) / 10:30 AM (Thai Time).

It is kindly requested to permit us to organize the same.



A.C. Wani  
ETESA coordinator



Dr. P. J. Shah  
Convener

Re: Invitation letter for seminar

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From: PARESH SHAH (pjshahj@yahoo.com)

To: roseatwongyeire@gmail.com

Date: Monday, 24 May, 2021, 10:33 pm IST

---

Ok mam, thank you so much. Received your biography.

[Sent from Yahoo Mail on Android](#)

On Mon, 24 May 2021 at 22:15, Rose Atwongyeire <roseatwongyeire@gmail.com> wrote:

Dear Dr. Shah,

The document has been well received and I hereby accept the invitation.

Attached herewith is my biography as per the request in the invitation letter.

Kind regards,  
Jane Rose.

-----  
Ms. Atwongyeire Jane Rose  
MSC. Sustainable Energy Management  
Faculty of Environmental Management,  
Prince of Songkla University, Thailand.  
Email: [roseatwongyeire@gmail.com](mailto:roseatwongyeire@gmail.com)  
Tel : +66 (0) 635896758

On Mon, May 24, 2021 at 8:36 PM PARESH SHAH <[pjshahj@yahoo.com](mailto:pjshahj@yahoo.com)> wrote:

Dear Sir,

As per our telephonic discussion, I am here by sending an Invitation letter as an attachment. Kindly give your consent for this seminar by giving a replay.

Thanking you in advance.

Regards,

**Dr. Pares J. Shah**, Ph.D. (SGSITS, Indore-RGPV, Bhopal), BE, ME, MMS.

Professor Electronics & Telecommunication Engineering Department,

SSBT's College of Engineering and Technology, Bambhori,

JALGAON-425001,+91 9890094045

[pjshahj@yahoo.com](mailto:pjshahj@yahoo.com), [pjshah118@gmail.com](mailto:pjshah118@gmail.com)

You Tube: SSBT's world -link: [https://www.youtube.com/results?search\\_query=ssbt+world](https://www.youtube.com/results?search_query=ssbt+world)

Facebook: SSBT's COET, Jalgaon link: <https://www.facebook.com/SSCOETJALGAON>



*Shrama Sadhana Bombay Trust's*  
**COLLEGE OF ENGINEERING AND TECHNOLOGY**  
BAMBHORI, POST BOX NO. 94, JALGAON, Maharashtra, India Pincode- 425001  
**Included under section 2 (f) & 12 (B) of the UGC Act, 1956**  
**Grade B++ (2.91) NAAC Accredited**

**One day International online Seminar on “Smart grid for  
enhancing power generation and distribution from  
renewable energy resources combined with MCDM and  
GIS approaches”**  
**Saturday, 29<sup>th</sup> May, 2021 | 9:00 AM (Indian Standard Time)**

## **INVITATION**

To,  
Ms. Atwongyere Jane Rose,  
PSU Energy System Research Institute  
Prince of Songkla University  
Hat Yai, Songkhla, Thailand

Date: 24/05/2021

Dear Madam,

We are honored and pleased to invite you as a speaker for One day International online Seminar on “**Energy Transition and Energy Technologies**”, organized by Electronics & Telecommunication Engineering Departments of SSBT’s College of Engineering and Technology, Jalgaon, Maharashtra, India on Saturday, 29<sup>th</sup> May, 2021 at 9:00 AM (Indian Standard Time) / 10:30 AM (Thai Time). We would be highly privileged to have you with us for International online Seminar.

Looking forward to your acceptance.

Kindly send your brief introduction/biography on [pjshahj@yahoo.com](mailto:pjshahj@yahoo.com).

Thanking you.

**Dr. Paresh J. Shah**  
**Convener**

*Shram Sadhana Bombay Trust's*  
**COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**BAMBHORI, POST BOX NO. 94, JALGAON – 425001. (M.S.)**  
**Electronics and Telecommunication Engineering Department**

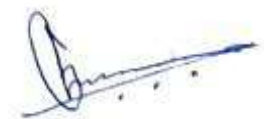
Date: 25/05/2021

**NOTICE**

One day International online Seminar for students on “**Energy Transition and Energy technologies**” was organized by Electronics & Telecommunication Engineering Department of SSBT's College of Engineering and Technology, Jalgaon on Saturday, 29th May, 2021 at 9:00 am. The eminent speaker was Ms. Atwongyeire Jane Rose, Geoscientist, Prince of Songkla University, Thailand. The interested students can do the registration online through below link and attend the seminar. There is no registration fees and E-certificates will be given to registered participants, who will attend. After registration join the WhatsApp group through registration link in which the online zoom meeting link of seminar will be shared.

To Register click on below link:

<https://forms.gle/ybMziv3EsNwALmU66>



Dr. S. R. Suralkar  
H.O.D

*ShramSadhana Bombay Trust's*  
**COLLEGE OF ENGINEERING AND TECHNOLOGY**  
BAMBHORI, POST BOX NO.94, JALGAON – 425001.(M.S.)  
**Brief Report on**

**E&TC Department ETESA Activity (2020-21)**

**Online One day International Seminar on "Energy Transition and Energy Technologies"**

**Date and Venue / Location:**Saturday, 29th May, 2021, 9:00 AM (Indian Standard Time)Online Zoom Meeting

Link:<https://us02web.zoom.us/j/84568842969?pwd=TTBiTFZKT0NkNFR3Rnl2U1VBUjc0dz09>

Meeting ID: 845 6884 2969Passcode: ssbt

**Aim / Purpose:**To create awareness to reduce energy-related greenhouse gas emissions through various forms of decarbonization.

**Objectives:**

1. To understand shift from a system dominated by finite (chiefly fossil-based) energy towards a system using a majority of renewable energy sources.
2. Maximising the opportunities available from increased energy efficiency and better management of energy demand.
3. To create awareness for the need to reduce energy-related CO<sub>2</sub> emissions to limit climate change.

**Registration link:**<https://forms.gle/ybMziv3EsNwALmU66>

**Participant's Profile:**Engineering students and faculties.

**Description about the Program:**

One day International online Seminar for students on“Energy Transition and Energy technologies” was organized by Electronics & Telecommunication Engineering Department of SSBT's College of Engineering and Technology, Jalgaon, India on Saturday, 29th May, 2021 at 9:00 am. The eminent speaker was Ms. Atwongyeire Jane Rose, Geoscientist, Prince of Songkla University, Thailand. The ETESA faculty advisor Mr. Amol Wani welcomed the participants and Dr. P. J. Shah Convener introduced the Resource person. The main objective of this program is to update the students with present technology and overall development of the students.

Ms. Atwongyeire Jane Rosein his seminar made students understand that around the world, the lockdown measures to contain COVID-19 have led to economic contraction and a significant drop in energy consumption including electricity, gas and oil. Experts and policymakers are still taking stock of the impacts of COVID-19 on the energy landscape and what it means for the ongoing transition to sustainable energy.Speaker explained the modelling, methodologies and knowledge to navigate the energy transition and aware that energy transition is a pathway toward transformation of the global energy sector from fossil-based to zero-carbon by the second half of this century and is the need to reduce energy-related CO<sub>2</sub> emissions to limit climate change.Nearly 250 students and faculties from various engineering colleges attended this event. There was a healthy interaction between speaker and participants the program ended by vote of thanks from Dr. S. R. Suralkar. The E-certificate is given to all the participants.

Full name starting with surname	Name of college	Branch
Patil Divyendu Hemant	SSBT COET Bambhori	Mechanical
Girish Narendra phalak	SSBT COET	Mechanical
PATIL AJAY KASHINATH	SSBT COET BambhoriJalgaon	E&TC
Nikam Aishwarya Hemant	SSBT COET Bambhori Jalgaon	E&TC
Lad Vishal Nivrati	MSS'S collage of engineering and technology	Electrical engineering
Katiyar Aryan Pradeep	Shrama Sadhana Bombay Trust's College Of Engineering And Technology, bambhori, Jalgaon	Information Technology
Thakare Aditya Dattatary	Government Polytechnic Amravati	Electrical
Panchbhai Mahima Ravindra	SSBT COET Jalgaon	Biotechnology
VERMA YOGESH		
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Patil Bhagyashri Pradip	Ssbtcoet	Computer
Patil Vaishnavi Ashok	SSBT college of Engineering and Technology jalgaon	E&TC
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RAJENDRA	SHRAM SADHANA BOMBAY TRUST BAMBHORI	MECHANICAL
Shinde Komal Rajendra	Shramsadhnabombay'strust,college of engineering and technology,Jalgaon,Maharashtra	Biotechnology
PATIL DNYANESHWAR		
SAHEBRAO	SSBT COET BAMBHORI JALGAON	ELECTRICAL
JADHAV DARSHAN VIJAY	Shram Sadhana Bombay Trust (SSBTE)	Mechanical
Khan Mishquat	Shri GovindramSeksariya Institute of technology and science	Electrical Engineering
Sonawane Roshan Dattatray	Gokale education society,sir.Dr.m.s.gosavi polytechnic institute nashikroad	Electrical
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Dasare Abhishek Sunil	SSBT COET JALGAON	Electrical Engineering
ZAGARE SAMADHAN		
RAMESHWAR	SSBT'S COLLAGE OF ENGINEERING AND TECHNOLOGY	Computer science
Swamiraj Santosh Ahire	Sir Dr M.S Gosavi Polytechnic Institute	Electrical engineering
Junagade Bhushan Mangesh	SSBT COET, Jalgaon	Electrical Engineering
Khairnar Madhuri Ramesh	R. C. Patel institute of Pharmaceutical education & Research, shirpur,	Pharmacy
Borse Jayesh H.	Gangamai College of Engineering,Nagaon.	Mechanical
HarshaliSahu	SGSITS	Electrical
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Shimpi Rajesh hemant	Ssbt college bambhori ,jalgaon	Mechanical
Pandhare Vishal sanjay	SSBTsCOET	Mechanical
Pardeshi Ankita Nitinsingh	Ssbt college of engineering and technology	Electronic and telecommunication engineering
PAWAR UTKARSH		
KAMALAKAR	Shrama Sadhana Bombay Trusts College Of Engineering And Technology Jalgaon	Mechanical
Chaudhari Bhushan Kisan	SSBT COET, BAMBHORI ,JALGAON	Chemical Engineering
VISHAKHA GAIKWAD	Shri G. S. Institute of technology and science, Indore	Electrical engineering
Deshpande Dhananjay Sudhir	MSS's College Of Engineering & Technology, Jalna	Electrical Engineering
Yeola Neha Nilkanth	SSBT COET, Jalgaon	Biotechnology
Supe Rajashree Gopal	SSBT COET	Computer Engineering
Patil Gayatri Atul	Shrama Sadhana Bombay Trust's College Of Engineering And Technology	Computer
PATIL SWAPNIL ANIL	SSBT COET, Bambhori,Jalgaon	Chemical
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BAVISKAR SHEKHAR MILIND	Gangamai College of Engineering, Nagaon, Dhule.	Civil Engineering
Dr. Manish Jain	Mandsaur University, Mandsaur	EEE
Wagh Pankaj Shravan	SSBT COET Bambhori Jalgaon	Mechanical Engineering
Jadhav Harshada Motilal	SSBT's COET, Jalgaon	COMPUTER
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Pandey Prasanna Kumar	Shri GovindramSeksaria Institute Of Technology And Science Indore Madhya Pradesh	Electrical Engineering

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Pemendra Kumar Pardhi	Pemendra Kumar Pardhi	Electrical Engineering
Bhamre Nupur Nitin	SSBT COET Bambhori Jalgaon	E&TC Electronic and Telecommunications Engineering
Joshi	Joshi Atharv Pradip GOVERNMENT COLLEGE OF ENGINEERING JALGAON	ELECTRICAL
PATIL SHRUTI HEMANT	Shri GovindramSeksaria Institute of Technology and Science	Electrical Engineering
AmishaPariya		
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Prajapati Raj Kumar	Shree GovindramSeksariya Institute of Technology and Science Indore	Electrical Engineering
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Khona Nilesh Bharat	Sandip University	Mechanical Engineering
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MarakSalomiRangsa	SSBT'sCOET	E&TC
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Devarebhaveshtushar	SSBT COET	Computer Electronic and telecommunication engineering
Pardeshi Ankita Nitinsingh	Ssbt college of engineering and technology	
PATIL KALPESH SUNIL	SSBT COET BAMBHORI JALGAON	ELECTRICAL ENGINEERING
sathishkumar CHAUDHARI TANUJA VISHNU	st.joseph's college of engineering SSBT COET BAMBHURI JALGAON	Electrical and Electronics Engineering Chemical
Pinjarinisartakdir JADHAV MOHINI SHASHIKANT	Gangamai college of engineering nagaon Sir,Dr.M.S.Gosavi Polytechnic Institute Nashikroad Nashik.	Civil engineering Electrical Engineering
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Bhattiwala Husain	Ssbtcoet	Cse
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Shimpi Yash Mahesh	SSBT	Computer Science
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Marathe Tushar Balu	Ssbtcoet	Mechanical
MALI BHUSHAN KANTILAL	SSBT COLLEGE OF ENGINEERING'	E&TC

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Jadhav Manas Jitendrasing	Shram Sadhana Bombay Trust's college of engineering and technology Bambhori Jalgaon	Chemical
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Matsagar Mayur Kailas	SSBTE	IT
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Shubham Tiwari	S. G. S. I. T. S Indore	Electrical engineering
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Prateek Chattar	SGSITS	EE
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Virendra Jain	Mandsaur University	EEE
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Jadhav Prajakta Kishor	SSBT COET Jalgaon	Chemical
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Sapkale Vaishnavi satish	SSBT Jalgaon	E&TC
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Khan arbaz	SSBT COET JALGAON	Chemical engineer
Kate Mayuri Sanjay	SSBT, COET, Bambhori, Jalgaon	Chemical engineering

Kate Mayuri Sanjay MAHAJAN RUSHIKESH SUBHASH BHOLWANKAR VAIBHAV DNYANDEO	SSBT, COET, Bambhori, Jalgaon	Chemical engineering
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TOMAR SACHIN VITTHAL MAHAJAN RUSHIKESH SUBHASH	SSBT COET JALGAON(BAMBHORI) SSBT'S college of Engineering and Technology Jalgaon, maharashtraindia	ME FE COMPUTER
Patil Hemanginidilip	Shram Sadhana Bombay Trust ,jalgaon	Computer Engineering
Jyoti Panika	SSBT COLLAGE OF ENGINEERING TECNOLOGY	E&TC
MALI GAURAV SANJAY	SSBT Collage	It
Patil Kalyani Bhatu	Shri Govindramseksaria institute of technology, Indore	Electrical engineering Electronic And Telecommunication Engineering
MALI GAURAV SANJAY	SSBT COET JALGAON	Information Technology
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Sanket Pravin Sonawane	SSBT BamboriCollege,Jalgaon	Computer Engineering
Dusane Dipak Dattatray	SSBT COET jalgaon	Biotechnology
Baviskar Neha Manoj	Shram sadhana bombay trust college of engineering	Computer engineering
BHOLE SAYALI LAXMAN	SSBTOET SSBT college of engineering and technology, bhambhorijalgaon	Computer
BoroleLubdhaShaligram	Shramsadhna Bombay Trust, College of Engineering and Technology, jalgaon	Computer
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Pratik vijay Kambale	SSBT COET Jalgaon	Computer
BAVISKAR LINA SHAMKANT	Shri G.S institute of technology and science	Electrical Engineering
SANGOLKAR NEHA	Gangamai college of engineering	Civil SSBT 's college of engineering and technology, bambhori, jalgaon
Zubair Ali Sayyed	Ssbt college	Electrical
KolheDivya Suresh	Ssbtcoetjalgaon	Computer Engineering
Chintale Nikhil Nagnath	Shrama Sadhana Bombay Trust	COMPUTER
JADE ABOLI DINESH DHAMGUNDE VARAD MANMATH	SSBT COET jalgaon	Computer engineering
RAJ KESHAV	SSBT COET BAMBHORI JALGAON	Computer
Deshmukh Shruti Harishchandra	Ssbtcost.bambhori, jalgaon	Computer engineering
Chaudhari Parag adhar	Sir dr m s gosavi polytechnic institute	Electrical
Musalekanchanambadas	SSBT COET	Computer
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Girish kherajani	SGSITS, Indore	Electronics and telecommunication
ALHAT. RUSHIKESH.NARESH	Ssbt college of engineering	Mechanical engineering
Singh Toyash	SSBT COET JALGAON S.S.B.T. COLLEGE OF ENGINEERING AND TECHNOLOGY,BAMBHORI,JALGAON	Computer ELECTRICAL
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Mahajan Bhavana Dasharath SONAWANE SHUBHAM AVINASH	SSBT Jalgaon	Mechanical Engineering
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KOLHE NIKHIL PRADIP	Mandsaur University	EEE
Kumbhar Kajal Ishwar		
Sanam Agnihotri		

CHAUDHARI GANESH BHARAT	SBTS's COET BAMBHORI JALGAON	Electrical
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Patil Vaishnavi Chandrashekhar	SSBT College of engineering and technology G. H. Raisoni Institute Of Business And Management, Jalgaon.	E&TC
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BHOITE NIVEDITA VIKAS PAWARA YOGESHWAR PRATAP	SSBT	Mechanical
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RokadePrachitaVijendra	Government polytechnic Amravati	Electrical
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Suryawanshi Swapnil vijay	SSBT College of engineering	Mechanical
DhangarSarveshShivdas CHAUDHARI SHREYA SANJAY	SSBT COET, Jalgaon Shramsadhnabombay trust college of Engineering & technology Shrama sadhana Bombay trust of college of engineering and technology Shrama Sadhana Bombay Trust's College Of Engineering And Technology	Computer Computer Science Computer
Chaudhari Suraksha Ravindra		Computer
Pawar Nitesh Ramesh		Electronics & Telecommunication
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Virendra Jain	Mandsaur University Shrama Sadhana Bombay Trust's College Of Engineering And Technology	EEE Computer engineering
Badgular Kirti Jitendra		
Deshmukh Shivnandan Vijay	Government college of engineering amravati?	Electrical
Gavali Priyanka Sanjeev	Sir.Dr.M.S.Gosvi Polytechnic Institute	Third year Electrical
Pathar Shruti Bipin	SSBT COET	Information Technology
Gadhari Jayesh Ramkrushna	Shrama Sadhana Bombay Trust's COEP ShramSadhna Bombay trust College of engineering, Jalgaon	Computer Electronics and Telecommunication
Shukla Aditya Milind		
Devare pooja gunavantrao	Ssbt college	Computer
Solanke Kailas Ramchandra MAHAJAN DNYANDA SHARAD	SSBT COET JALGAON SSBT COET BAMBHORI	Electrical E&TC
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Deshmukh Rushikesh Sunil	Ssbt	Computer
Borane Saurav Sanjay	Ssbt cost Jalgaon	Computer engineering
Joshi Rohit Dinesh	S. S. B. T. C. O. E. T. Jalgaon	Mechanical
Anthony Marshal Stephen	DR MS Gosavi polytechnic institute nashik	Electrical
Dubey Vijay Kumar	SGSITS, Indore	Power Electronics
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Nannaware Lalit Ukha	SSBT COET JALGAON	E&TC
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Pandey Prasanna Kumar		
Shaikh fizarafik	Dr.m.s.gosavi polytechnic nashik road nashik	Eletrical engineering
Patil SakshI Sanjay	SSBT COET JALGAON	IT

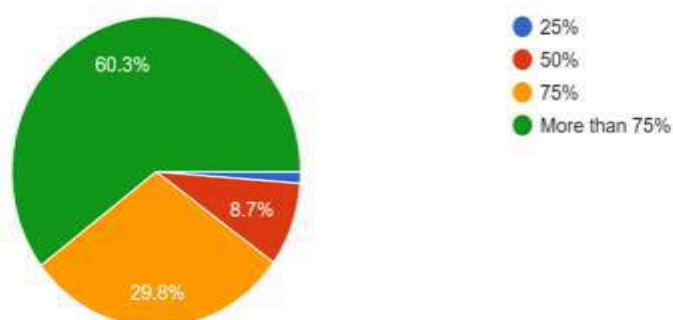
Supe Meghana Gajanan	SSBT COET, Jalgaon.	E&TC
Mahajan Shreya Santosh	Shrama Sadhana Bombay Trust's College Of Engineering And Technology,Bambhori	Electrical
Solanke Kailas Ramchandra	SSBT COET JALGAON	Electrical
Mendhe Anamika Subhash	SSBT College of Engineering Jalgaon	Computer Engineering
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Vinay	Vinay	electric
Rathod Amit Gowarsing	SSBT'S COET BAMBHORI JALGAON	Mechanical engineering
Vignesh G	Clenergy Innovations Private Limited	Energy Engineering
CHAVAN MOHIT NANDU	SSBT College of Engineering, Jalgaon	Computer Engineering
Wani Sachin Ramesh	KPIT Technologies Limited	Mechanical
Patil Jagdish Suresh	SSBT.COET.Bhambhori Jalgaon	Mechanical
Mahajan Piyush Mohan	Ssbt college of engineering bhambhuri	Computer engineering

**Feedback& Analysis:** The feedback was taken through google docs link

### Analysis:

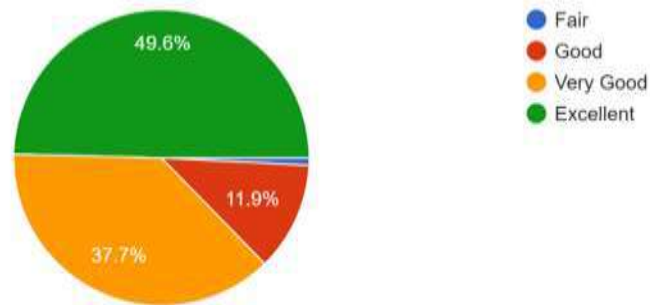
Up to what extent you like this seminar

252 responses



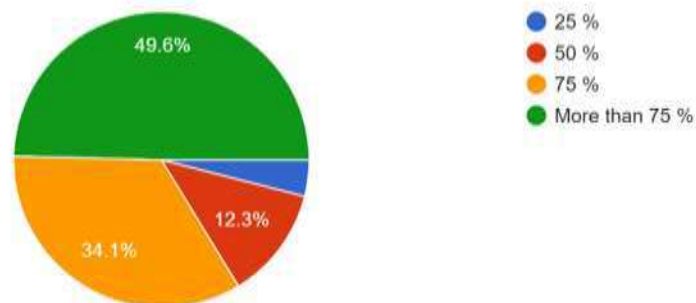
How was the organization of this seminar.

252 responses



Up to what extent this seminar will be helpful for your career

252 responses



### Outcomes:

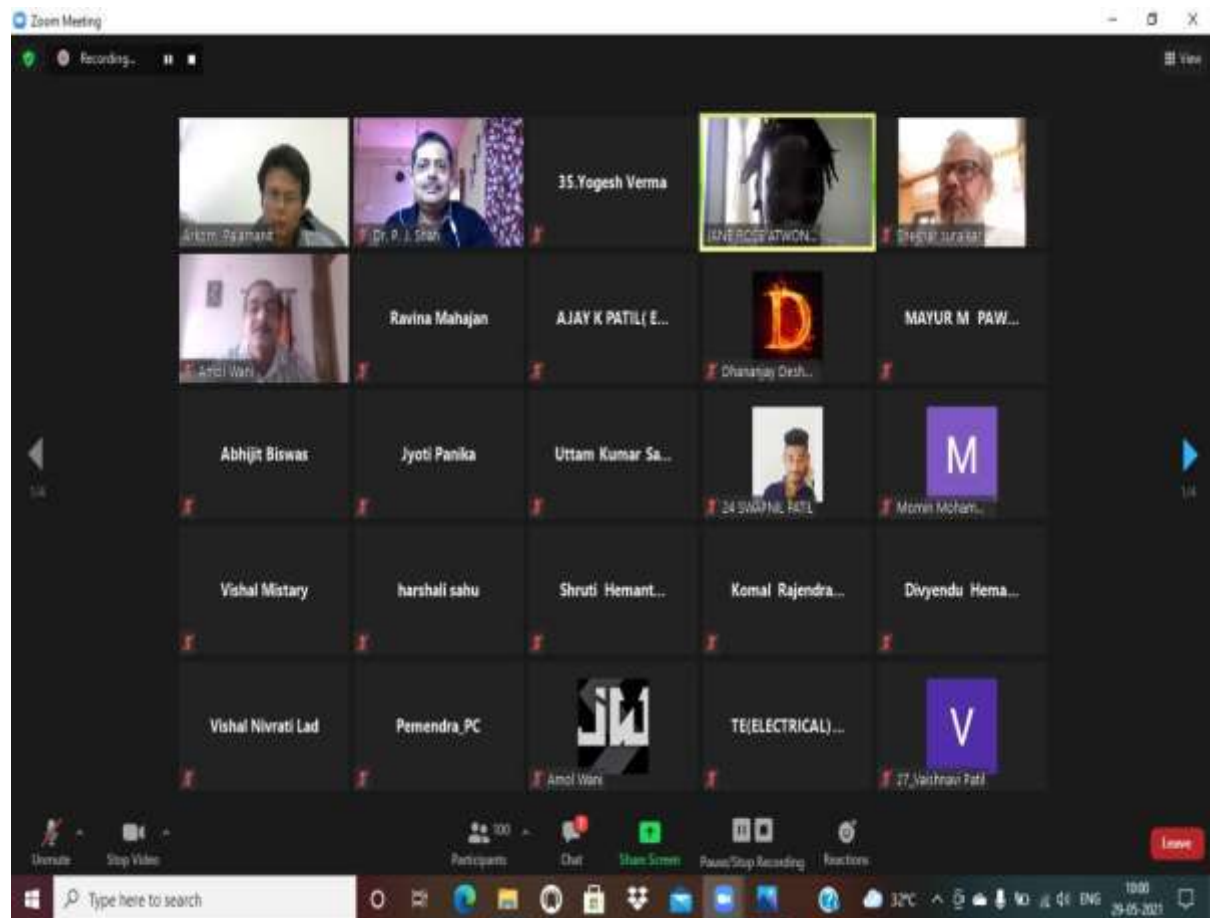
1. Participants understand the need to reduce energy-related CO<sub>2</sub> emissions to limit climate change.
2. Understand the health and environmental benefits of renewable energy and its overall positive impact on the natural environment.

**Recommendations:** To organize such seminars regularly.

Photos:



Ms. Atwongyeire Jane Rose conducting seminar online.



Participants attending online.

SSBT's College of Engineering and Technology,  
Jalgaon, INDIA invites you to



# ONE DAY INTERNATIONAL ONLINE SEMINAR FOR STUDENTS

**Theme: Energy Transition and Energy technologies**

**May 29, 2021  
9:00 A.M. IST  
Online meeting via  
Zoom**

**Speaker:  
Ms. Atwongyeire Jane Rose  
Geoscientist,  
Prince of Songkla University, Thailand**



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ETESA Co-ord

**Dr. P. J. Shah**  
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**Dr. S. R. Suralkar**  
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### एसएसबीटी महाविद्यालयात 'ऊर्जा संक्रमण तंत्रज्ञाना'वर चर्चासत्र

जळगाव | एसएसबीटी अभियांत्रिकी महाविद्यालयात 'ऊर्जा संक्रमण आणि ऊर्जा तंत्रज्ञान' या विषयावर शनिवारी ऑनलाईन चर्चासत्र घेण्यात आले. यात थायलंडच्या सॉन्गकला युनिव्हर्सिटीच्या भू-वैज्ञानिक सुब्री जेन रोज अटवोंगयिअर यांनी मार्गदर्शन केले. कार्यक्रमाला सुमारे ३०० विद्यार्थ्यांनी सहभाग घेतला. थायलंडच्या सॉन्गकला युनिव्हर्सिटीचे डॉ. आरकांम पालमनीत, प्राचार्य डॉ. के. एस. वाणी, उपप्राचार्य प्रा. डॉ. एस. पी. शेखावत, डॉ. एस. आर. सुरळकर, डॉ. पी. जे. शाह, प्रा. अमोल वाणी उपस्थित होते. प्रा. अमोल वाणी यांनी सूत्रसंचालन केले. प्रारंभिक डॉ. पी. जे. शाह यांनी डॉ. एस. आर. सुरळकर यांनी आभार मानले. डॉ. दीपक तळेलेंनी नियोजन केले.

Newspaper Cuttings

Mr. A. C. Wani  
ETESA Faculty Advisor  
Name & Signature of Coordinator(s)

Dr. S. R. Suralkar  
H.O.D.



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**Included under section 2 (f) & 12 (B) of the UGC Act, 1956**  
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Website- [www.ssoetjalgaon.ac.in](http://www.ssoetjalgaon.ac.in)  
Email: [ssoetjal@gmail.com](mailto:ssoetjal@gmail.com)  
Principal: Dr. K.S.Wani  
M. Tech., DBM, Ph.D.

Phone No. (0257) 2258393  
Fax No. (0257) 2258392

Ref. no. *COET/App.Ltr./520/06/21*

Date: 29/05/2021

**02 JUN 2021**

### Letter of Appreciation

To,

**Ms. Atwongyeire Jane Rose,**  
PSU Energy System Research Institute,  
Prince of Songkla University,  
Hat Yai, Songkhla, Thailand

Dear Madam,

We would like to take this opportunity to thank you for delivering lecture on the topic “**Energy Transition and Energy Technologies**” in one day International online seminar, organized by Electronics & Telecommunication Engineering Departments of SSBT's College of Engineering and Technology, Jalgaon, Maharashtra, India on Saturday, 29<sup>th</sup> May, 2021 at 9:00 AM (Indian Standard Time) / 10:30 AM (Thai Time).

The seminar is a grand success and is very well appreciated by the participants.

We appreciate your knowledge and the vigor with which you have guided and encouraged the participants of this seminar.

Regards

Dr. K. S. Wani  
Principal  
**PRINCIPAL**

**SSBT's College of Engineering & Technology**  
Bambhori, Jalgaon-425001(M.S.)





## **10<sup>th</sup> International Conference on ‘Global Trends in Engineering and Technology (ICGTET 2020-21)**

Institute organizes International Conference every year. This year also 10<sup>th</sup> International Conference on ‘Global Trends in Engineering and Technology (ICGTET 2020-21)’ was organized (Online Mode) during 29-30 January 2021. The aim of this conference was to provide an interdisciplinary forum for engineers, scientists, researchers and student technocrats to interact and promote research and technology transfer of advances in Engineering and Technology. The objective of the ICGTET - 2020-21 was to enhance scientific and engineering information exchange among researchers, engineers, students and practitioners working in India and rest of the world. The conference was also aimed at providing free flow of ideas, particularly concerning to recent technological aspects.

The conference was jointly organized by Electronics and Telecommunication Department and Information Technology Department in association with Prince of Sonkla University, Thailand and ICT Academy, Chennai, technically co-sponsored by IETE, Aurangabad Section.

The inauguration was at the hands of Chief guest Dr. Tanit Chalermynont, Dean, Faculty Of Engineering, Prince of Sonkla University, Thailand and Guest of Honor Dr. Apoorva Mishra, Faculty, Computer Science and Engineering Department, Indian Institute of Information Technology, Pune. In this conference total 42 high quality papers were selected and presented and nearly 100 participants participated in the conference.



**10<sup>th</sup> International Conference on ‘Global Trends in Engineering and Technology (ICGTET 2020-21)**

**Dr. Prashant V. Thakre**



# All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela Marg, Vasant Kunj, New Delhi-110070 Website: [www.aicte-india.org](http://www.aicte-india.org)



## STTP- Sanction Letter

Ref. No. 34-66/492/FDC/STTP/Policy-1/2019-20

Date 10 AUG 2020

From

Director,  
Faculty Development Cell,  
AICTE, New Delhi-110070

To

The Drawing and Disbursing Officer,  
All India Council for Technical Education,  
Nelson Mandela Marg,  
Vasant Kunj, New Delhi – 110070

**Sub:** Release of grant for conduct of Short Term Training Programme (STTP) under AQIS 2019-20 during the financial year 2020-21– reg.

Sir,

This is to convey the sanction of the Council for payment of **Rs. 366667 /-** (**Rupees Three Lakh SixtySix Thousand Six Hundred SixtySeven Only**) for conduct of Short Term Training Program as per details given below:-

1.	Name and address of the beneficiary University / Institution	SSBT'S COLLEGE OF ENGINEERING & TECHNOLOGY POST BOX NO. 94 N.H. 6, BAMBHORI, JALGAON 425 001 MAHARASHTRA STATE Maharashtra 425001
2.	Permanent ID of Institute	1-8773881
3.	Institute type	Unaided - Private
4.	Name of Coordinator	Dr. PARESH SHAH
5.	Amount sanctioned	Rs. 366667/-
6.	Amount to be released	Rs.366667/- Full & final payment
7.	Head of account	<b>601.15(a) Gen. Short Term Training Programme (Plan)</b>
8.	The authorized officer in whose favour Cheque/ Demand Draft/ RTGS is to be made	REGISTRAR / DIRECTOR / PRINCIPAL
9.	Title of the programme	Digitally Controlled Power Converters for Industrial and Renewable Applications

1. The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education on the grant-in-aid bill and shall be disbursed to and credited to the Registrar/ Director/Principal of the institute through RTGS.
2. This grant-in-aid is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.
3. The Principal of the Institute and the Coordinator of the Program are requested to verify the correctness of the under-mentioned Bank Account / RTGS Details submitted by them alongwith the proposals, in which the grant is being released:-

Institute PAN No.	Bank Name	Bank Branch Name	Bank Branch Address	Account Holder Name	Account Type	Account Number	IFSC Code
AAATS03 10D	BANK OF MAHARASH TRA	Bambhori	at post Bambhori, Taluka Dharangao n	Principal SSBT's COET Bambhori	Saving Account	60028001642	MAHB0001 422

**Instructions/Guidelines to be followed by the University/Institution**

**I. Disbursement of funds to University/Institutions**

- a. The full amount of the grant sanctioned is being released as advance to the University/Institute.
- b. The amount spent by the institute on the conduct of STTP shall be adjusted on the basis of utilization certificate and detailed expenditure statement submitted by the University/Institution on the prescribed format along with other mandatory documents viz feedback form, copy of proceedings and completion report etc.
- b. The above said amount of grant shall be refunded back to AICTE if the Letter of Approval (LOA) / Extension of Approval (EOA) is not issued by AICTE to the institute for the academic year 2020-21.

**II Maintenance of Accounts**

- a. The Institute shall strictly follow the provisions laid down in the scheme document as available on the portal.
- b. Funds covered by this grant shall be kept separately and would not be mixed up with other funds so as to know the amount of interest accrued on the grant.
- c. The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.
- d. The grant is intended to cover items of expenditure connected with the Short Term Training Programme such as Boarding & Lodging to the participants, TA to outstation participants, Honorarium to Course Coordinator, reading material to participants, Honorarium to resource persons, TA/DA to resource persons including two outstations resource persons & working expenses (reprographic services, postage, transport, daily wages, tea/coffee etc).

**III. Conduct of test and issuance of certificate**

A test shall be conducted by Program Monitoring Committee (PMC) at the end of the program and joint certificates shall be issued (by AICTE & conducting institute) to those participants who have attended the program and have scored minimum 60% marks in the test.

**IV. Submission of Documents by the University/Institutions to AICTE**

- a. The following mandatory relevant documents are required to be submitted by the University/Institution within one month of the completion of the program:-
  - (i) Original Statement of actual expenditure & Utilization Certificate in the prescribed proforma duly signed by the Head of the institution and countersigned by Registrar/Finance Officer/Govt. Auditor. In case of self-financing/private institutions, Statement of actual Expenditure & Utilization Certificate are required to be audited & signed and sealed by a Chartered Accountant endorsing the membership number and complete postal address. Format for the same is available on AICTE web portal.

The University/Institution is not required to submit bills/vouchers/invoices etc for the expenditure incurred out of recurring grants. However, such copies of bills/vouchers/invoices shall be digitized by respective institutions receiving grant and uploaded scanned copies of such bills/vouchers/invoices etc on the portal for availability and view at any point of time.

- (ii) Feedback form in the prescribed proforma.
  - (iii) Copy of the proceedings and completion report.
  - (iv) List of candidates who have successfully completed the program on the basis of the test conducted by Program Monitoring Committee (PMC).
  - (v) Report submitted by Program Monitoring Committee (PMC).
- b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid adjusted.

#### V. General instructions

- a. Preferably 10% of the participants may be industry professionals deputed by industry. Further, not more than 2 participants shall be from the host institution/group of institutions.
- b. The grant released/or part thereof, if remains unutilized for any reason after expiry of stipulated time period (for any reasons to include unspent amount, interest, penalty if imposed) shall be refunded back to AICTE in the form of RTGS payable to Member Secretary, AICTE, New Delhi. The bank details of AICTE are as under:-

Account No	: 55113199952
Name of the Account Holder	: Member Secretary, AICTE, New Delhi
Bank Name	: State Bank of India
Branch Name	: Shastri Bhawan, New Delhi
IFSC Code	: SBIN0050203

- c. The STTP is a residential program of a duration of six days with minimum 40 participants. The approved STTP shall be conducted within six months from the date of release of funds.
- d. If programme is not conducted within the period of six months of the release of the 100% grant, the released amount, alongwith interest accrued thereon, has to be necessarily returned back to AICTE within a month through RTGS.
- d. The expenditure under the Heads 'Honorarium to Course Coordinator' and 'Honorarium to Resource Persons' shall not exceed 1% & 20% respectively of the total sanctioned grant for the Programme. However, overall expenditure shall not exceed the funds sanctioned for the Programme.
- g. Any extra money required to complete the programme must be borne by the institute from their own resources. But the quality of the activities should not be compromised.
- h. Any unavoidable circumstantial change in the program with respect to name of Project Coordinator, Venue and date for organizing STTP would mandatorily require prior approval of the Council. All such requests should be addressed to AICTE, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council. Kindly mention the File No. 34-66/492/FDC/STTP/Policy-1/2019-20 in your future correspondence.
- i. **Steering Committee/Project Monitoring Committee (PMC)** is required to be constituted at institutional level. The constitution of the PEC shall be as under:
- (i) Principal/Director/Registrar of the institution (Chairperson).
  - (ii) (ii) Coordinator of the program (Member Secretary).
  - (iii) Two HoDs and one subject expert (members).

The members of the said PMC shall not be below the rank of Associate Professor. A test shall be conducted by Project Monitoring Committee (PMC) at the end of the program and the certificates shall be issued to those participants who have attended the program and have qualified in the test. The minutes of the meetings, along with PMC report, are to be submitted to the Council at end of the program along with other mandatory documents.

- j. **Goi GFR rules** (@<https://doe.gov.in/order-circular/general-financial-rules2017-0>) should be followed during utilization of grant.
- k. This Sanction Order may be treated as Offer Letter for all purposes.

**NOTE:- Any deviation from the above will invoke serious action against the Institute.**

Yours sincerely

(Col. B Venkat)  
Director (FDC)

10 AUG 2020

Copy forwarded for information and necessary action to: -

1. **Name and Address of the Coordinator**  
Dr. PARESH SHAH  
SSBT'S COLLEGE OF ENGINEERING & TECHNOLOGY  
POST BOX NO. 94 N.H. 6, BAMBHORI, JALGAON 425 001 MAHARASHTRA STATE  
Maharashtra425001
2. **The Registrar / Director / Principal**  
SSBT'S COLLEGE OF ENGINEERING & TECHNOLOGY  
POST BOX NO. 94 N.H. 6, BAMBHORI, JALGAON 425 001 MAHARASHTRA STATE  
Maharashtra425001
3. **Guard File**



Phone : 011-26131577 - 78, 80  
011-29581000  
Website : www.aicte-india.org



सत्यमेव जयते

## अखिल भारतीय तकनीकी शिक्षा परिषद्

(भारत सरकार का एक संविधिक निकाय)  
(मानव संसाधन विकास मंत्रालय, भारत सरकार)  
नेल्सन मंडेला मार्ग, वसंत कुंज, नई दिल्ली-110070

### ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

(A Statutory Body of the Govt. of India)  
(Ministry of Human Resource Development, Govt. of India)  
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070

Col. B. Venkat  
Director (FDC)  
E-mail: [director.fdc@aicte-india.org](mailto:director.fdc@aicte-india.org)  
Mob. No. 8130255472

14 Sept 2020

**Sub:-For information of AICTE approved institutes which have received grants for conducting STTP's/FDP's under AQIS 2019-20.**

Sir,

This is in reference to grants released by AICTE under AQIS 2019-20 for conduct of STTP's/FDPs. It is being observed that due to present circumstances of ongoing pandemic of COVID-19, most of Institutes are facing difficulties in organizing and conducting STTP's. This office has received a number of requests from various institute to allow on line method of conducting STTP/FDP to complete their commitments.

In this regard, it is to inform that all such institutes, which have already received grants for conducting STTP's/FDPs through prevailing contact mode, are **allowed to conduct STTP's through online mode subject to following conditions:**

- (i) The Institute will be allowed to adjust the grants received for STTP at following rates:-

a.	Honorarium for Coordinator	Rs. 5000.00
b.	Honorarium to experts	Rs. 75000.00
c.	Provision for payment to lab attendant engaged during lab practices	Rs. 3000.00
d.	miscellaneous charge	Rs. 10000.00
<b>Total for each STTP's</b>		<b>Rs 93000.00</b>

- (ii) The Institute will conduct more than one STTP's in multiples of Rs. 93000.00 within the total grant received by it and shall return the balance unspent amount to AICTE.

e.g.

if an Institute has received grant for STTP	=Rs 3,00,000.00
Cost of three STTP	3x93000= Rs. 279000.00
<b>Balance</b>	<b>= Rs. 21,000.00</b>

The institute will return the balance unspent amount of Rs.21,000.00 alongwith interest earned on such amounts to AICTE while submitting UC for adjustment of accounts for keeping its eligibility for receiving grants in next AQIS.

- (iii) The institute will conduct all three STTP's as explained above on the same topic which has been approved by AICTE while releasing the grants.
- (iv) Firm dates for each program will be intimated to AICTE beforehand.

On similar lines FDP (02 week program) to be conducted online has the following approval totaling to Rs. 1,86,000.00.

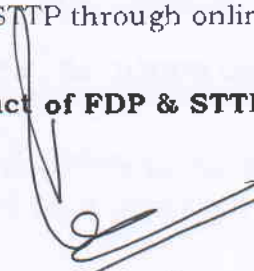
a.	Honorarium for Coordinator	Rs. 5000.00
b.	Honorarium to experts	Rs. 1,68,000.00
c.	Provision for payment to lab attendant engaged during lab practices	Rs. 3000.00
d.	miscellaneous charge	Rs. 10000.00
	<b>Total for each FDPs</b>	<b>Rs 1,86,000.00</b>

The conducting of FDP's (two weeks program) shall be subjected to the similar conditions (i) to (iv) given above for conduct STTP courses, except rates of Honorarium to experts.

You are requested to acknowledge receipt of above guidelines and convey your consent if your institute is ready for conducting the STTP through online format on conditions explained above.

**It is once again reiterated that online conduct of FDP & STTP will be on explicit permission of AICTE.**

This provision is valid only till 31 Dec 2020.

  
14 Sept  
Yours sincerely,  
Director (FDC)



*Shram 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 B++ (2.91) NAAC Accredited**

Website- [www.ssoetjalgaon.ac.in](http://www.ssoetjalgaon.ac.in)

Email: [ssoetjal@gmail.com](mailto:ssoetjal@gmail.com)

Principal: Dr. K.S.Wani

M. Tech., DBM, Ph.D.

Phone No. (0257) 2258393

Fax No. (0257) 2258392

Ref. No.COET/ *FDC/548/09/20*

Date: 26/09/2020

To,  
Col. B. Venkat  
Director, Faculty Development Cell,  
AICTE, New Delhi.

**Subject:** Permission to organize AICTE sanctioned THREE Short Term Training Programs through online mode under AQIS 2019-20.

- References:** 1. AICTE Sanctioned letter no. 34-66/492/FDC/STTP/Policy-1/2019-20, dated 10/08/2020.  
2. AICTE letter regarding the conduction of STTP through online mode, dated 14/09/2020.

Dear Sir,

With reference to the subject cited above, AICTE has sanctioned a Short Term Training Program on "Digitally Controlled Power Converters for Industrial and Renewable Applications" (Reference 1). The amount sanctioned for this STTP is Rs. 366667/- (Rupees Three Lakhs Sixty Six Thousand Six Hundred and Sixty Seven only).

As per AICTE letter, dated 14/09/2020 (Reference 2), we wish to organize three STTP through online mode. It is requested to give us permission to organize three Short Term Training Programs through online mode on the same topic as mentioned above.

Thanking you.

Yours faithfully,

*K.S.*  
*26.9.2020*

Dr. K. S. Wani

Principal

**PRINCIPAL**

**SSBT's College of Engineering & Technology**  
Bambhori, Jalgaon-425001(M.S.)



## Re: Permission to organise AICTE sponsored STTPs Online under AQIS 2019-20 Ya

---

From: Col B Venkat (director.fdc@aicte-india.org)

To: pjshahj@yahoo.com

Cc: pjshah118@gmail.com

Date: Friday, 16 October, 2020, 09:52 pm IST

---

Three online STTPs are hereby approved to be conducted from the budget allocated.

Please ensure the following-

1. Please space the same in such a manner that they are completed till 31 March 21.
2. An online STTP to be of 6 days with exam on the last day.
3. Certificate to be given to only those participants who secure more than 60% and have minimum 80% attendance.
4. Minimum of 02 sessions a day of 90 - 120 mins each will be the norm.
5. Maximum 100 participants are permitted.
6. Online link will be shared with this office.

Regards,

Col B Venkat

Director (Faculty Development)

AICTE

8130255472

On Fri, 16 Oct 2020, 13:37 PARESH SHAH, <[pjshahj@yahoo.com](mailto:pjshahj@yahoo.com)> wrote:

Sir,

We have sent a letter seeking permission to organize AICTE sponsored STTPs Online under AQIS 2019-20 on 26th September 2020. The permission regarding online STTP has not been received yet.

As per our telephonic conversation, I am hereby sending the letter for permission to conduct STTPs Online again as an attachment.

Kindly do the needful.

Regards,

**Dr. Paresh J. Shah**, Ph.D. (SGSITS, Indore-RGPV, Bhopal), BE, ME, MMS.

Professor Electronics & Telecommunication Engineering Department,

SSBT's College of Engineering and Technology, Bambhori,

JALGAON-425001, 9890094045

[pjshahj@yahoo.com](mailto:pjshahj@yahoo.com), [pjshah118@gmail.com](mailto:pjshah118@gmail.com)



**Shram 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 B++ (2.91) NAAC Accredited**

### **AICTE Sponsored**

(Vide Letter No. 34-66/492/FDC/STTP/Policy-1/2019-20, dated 10/08/2020)

**One Week Online Short Term Training Program**  
**On**

**Digitally Controlled Power Converters for Industrial and renewable Applications**  
**(Phase-I)**  
**(Under AQIS Scheme)**  
**26<sup>th</sup> Oct. to 31<sup>st</sup> Oct. 2020**

### **ELIGIBILITY AND SELECTION CRITERIA**

Selection will be done based on First-Come-First Serve basis. Decision of the Project Monitoring Committee (PMC) will be final in all regards.

The faculty members of the AICTE approved institutions, research scholar, PG Scholars and Industry Persons can apply.

Note: A Evaluation Test will be conducted at the end of program and Certificates will be issued only to those participants attending all sessions of STTP and who qualifies the test with 60% marks.

### **IMPORTANT DATES**

Last date of Registration : 18/10/2020  
Confirmation to the participants: 23/10/2020

### **CORRESPONDENCE**

**Dr. Prashant V. Thakre**  
Prof., Electronics and Telecommunication Department  
pvthakre2006@rediffmail.com, 9881015375  
**Mr. N. S. Mahajan**  
Asst. Prof., Electrical Engineering Department  
ssbtelect@gmail.com, 9975002581

### **CHIEF PATRON**

Shri. Raosaheb D. Shekhawat  
Managing Trustee

### **PATRON**

Prof. (Dr.) K. S. Wani  
Principal

### **CONVENER**

Dr. Paresh J. Shah  
Professor, Electronics and Telecommunication Department

### **STEERING COMMITTEE**

Dr. S. P. Shekhawat, Chairperson  
Dr. P. J. Shah, Member Secretary  
Dr. S. R. Suralkar, Member  
Mr. V. S. Pawar, Member  
Dr. P. V. Thakre, Member

### **ORGANISING COMMITTEE**

Dr. P. H. Zope  
Mr. A. C. Wani  
Mr. Dhanesh Patil  
Mr. Nilesh Mahajan  
Mr. Satpal Rajput

### **REGISTRATION LINK**

No Registration Fee  
Click on link for Registration or scan QR code  
<https://forms.gle/Qp65MxAxBHRcTYrA8>



### **AICTE Sponsored**

(Vide Letter No. 34-66/492/FDC/STTP/Policy-1/2019-20, dated 10/08/2020)

**One Week Online Short Term Training Program**  
**On**

**Digitally Controlled Power Converters for Industrial and renewable Applications**  
**(Phase-I)**  
**(Under AQIS Scheme)**  
**26<sup>th</sup> Oct. to 31<sup>st</sup> Oct. 2020**

### **ORGANIZED BY**

Department of Electronics & Telecommunication and  
Department of Electrical Engineering



**Shram 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.ssoetjalgaon.ac.in

## ABOUT INS TITUTE

Shram Sadhana Bombay Trust runs College of Engineering & Technology, Bambhori, Jalgaon, which is one of the important industrial town & district headquarters of Maharashtra State. SSBT's COET campus is lush green spread over 25 acres area and located on the bank of River Gima. 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 B++ grade.

### Under Graduate (UG) courses:

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

### Ph.D. Programmes:

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

## ABOUT E&TC DEPARTMENT

In the establishment year of college 1983, the Electronics Engg Branch was started & as per the need of time it was converted to Electronics and Telecommunication from academic year 2001. The department has been NBA Accredited by National Board of Accreditation (NBA) Committee constituted under AICTE for three times. During last 37 years, the department developed the twelve well equipped and furnished labs along with Seminar room, departmental library, separate departmental Computer Lab with soft wares like MATLAB, XILINX, DSP, ULTIBOARD, ORCAD etc, & reception of Eklavya Channel from IIT Powai for students. The present intake of the department is 60. The department has maintained the track of excellent results by securing 1st Rank and Gold Medal at university level examination. The department has ten well equipped laboratories for UG and two labs for PG. Department has recognized research laboratory under Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, Maharashtra. It has highly-qualified, devoted & dedicated team of teaching staff members. A conducive environment exists in the department for both students & staff.

## ABOUT ELECTRICAL DEPARTMENT

Department of Electrical Engineering is established in year 1999 with an intake of 60. The department was accredited for 5 years by N.B.A., New Delhi. The department has maintained the track of excellent results by securing 1<sup>st</sup> 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, Prince of Sonkhla University, Thailand, to enhance the quality based educational experience for students, researchers as well as faculties. Hands-on-training programs are organized regularly. Department has 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.

## INTRODUCTION

Every systems and machines universally depends on power electronics for the ability to run efficiently and sustainably. Power electronics is the application of solid-state electronics for the control and conversion of electric power. It applies to both the systems and products involved in converting and controlling the flow of electrical energy, allowing the electricity needed for everyday products to be delivered with maximum efficiency in the smallest and lightest package.

According to an article by ABB, about 40% of the world's power needs are met by electrical energy. That number is quickly rising as the trend towards renewable energy sources has increased. Without power electronics, this energy cannot be harnessed and delivered efficiently and energy from renewable sources, such as solar and wind, could not be fed into the electricity grid. Power electronics allow solar energy to be used by converting the Direct Current energy produced by solar panels into AC, used in the commercial electrical grid. Wind energy also needs to be converted and must be fed into a grid at a constant frequency despite changing wind conditions. Other forms of alternative power such as thermal, hydro and nuclear also take advantage of the benefits of power electronics to effectively deliver power. Power electronics is not only used to deliver and control power in the electric grid, but it is also used in numerous everyday devices.

Everything right from power steering in car, battery chargers, cell phones, and microwaves utilize power electronics. The use of this technology can increase productivity and decrease costs for the manufacturer and the consumer. Power electronics also allow for the variance of electric motor drive speeds, reducing the amount of energy consumed by making processes more efficient. Without this technology electric motors would always run at full speed consuming more energy than necessary. Power electronics converters also conserve energy by making it possible to transport electricity over long distances with minimal loss by transforming alternating current (AC) into high-voltage direct current (HVDC) and vice-versa.

Advances in power electronics allow power to be delivered in a more dependable and less costly manner saving both energy and costs for the consumer.

## ABOUT STTP

Short Term Training Program (STTP) intends to conduct faculty trainings through financial assistance from AICTE (under AQIS scheme) to enable faculty members in the field of technical education to introspect and learn techniques that can help prepare students for active and successful participants in a knowledge society. This STTP will definitely enhance the knowledge of every researcher, faculty and students working in power electronics area. The participants will also be able to gain practical knowledge during the practical session to be conducted by National Infotech, Surat. National Infotech (NITech) is working in the field of power electronics, embedded system development and custom industrial automation. NITech comes into existence in the year of 2001 initially started with as training centre in embedded system, power electronics, industrial instrumentation and automations. Later NITech diverted for developing educational trainers for academic institutes and industrial solution.

## COURSE OBJECTIVES

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## COURSE CONTENTS

1. Fundamentals of Power Electronics
2. Power Electronic Converters and Inverters
3. Control Strategies in Power Electronic System
4. Role of Power Electronics in Solar Applications
5. Simulation and Modeling of Power Electronic Converters and Inverters
6. Interfacing STM32 Microcontroller with MATLAB and Hardware
7. Interfacing LCD, Keyboard, ADC with STM32 Microcontroller
8. Development of Three-phase SPWM and SVM Inverter Circuits with STM32 Microcontroller

## RESOURCE PERSONS

1. Dr. Shailendra Jain, Director, Sant Longowal Institute of Engineering & Technology, Longowal, Punjab
2. Mahadasraf A. Mulla, Sardar Vallabhbhai National Institute of Technology, Surat
3. Dr. Shailendra Kumar Sharma, Shri G. S. Institute of Technology & Science, Indore
4. Dr. Krishna Kumar Gupta, Thapar Institute of Engineering & Technology, Patiala
5. Dr. K. B. Khanchandani, Shri Sant Gajanan Maharaj College of Engineering, Shegaon.
6. Dr. Paresh J. Shah, SSBT's College of Engineering and Technology, Jalgaon
7. Dr. Prashant V. Thakre, SSBT's College of Engineering and Technology, Jalgaon



**Shram 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 B++ (2.91) NAAC Accredited**

### **AICTE Sponsored**

(Vide Letter No. 34-66/492/FDC/STTP/Policy-1/2019-20, dated 10/08/2020)

## **One Week Online Short Term Training Program** **On**

**Digitally Controlled Power Converters for**  
**Industrial and renewable Applications**  
**(Phase-II)**  
**(Under AQIS Scheme)**  
**23rd to 28th Nov. 2020**

### **ELIGIBILITY AND SELECTION CRITERIA**

Selection will be done based on First-Come-First Serve basis. Decision of the Project Monitoring Committee (PMC) will be final in all regards.

The faculty members of the AICTE approved institutions, research scholar, PG Scholars and Industry Persons can apply.

Note: A Evaluation Test will be conducted at the end of program and Certificates will be issued only to those participants attending all sessions of STTP and who qualifies the test with 60% marks.

### **IMPORTANT DATES**

Last date of Registration : 18/11/2020  
Confirmation to the participants: 20/11/2020

### **CORRESPONDENCE**

**Dr. Prashant V. Thakre**  
Prof., Electronics and Telecommunication Department  
pvthakre2006@rediffmail.com, 9881015375

**Mr. N. S. Mahajan**  
Asst. Prof., Electrical Engineering Department  
ssbtelect@gmail.com, 9975002581

### **CHIEF PATRON**

Shri. Raosaheb D. Shekhawat  
Managing Trustee

### **PATRON**

Prof. (Dr.) K. S. Wani  
Principal

### **CONVENER**

Dr. Paresh J. Shah  
Professor, Electronics and Telecommunication Department

### **STEERING COMMITTEE**

Dr. S. P. Shekhawat, Chairperson  
Dr. P. J. Shah, Member Secretary  
Dr. S. R. Suralkar, Member  
Mr. V. S. Pawar, Member  
Dr. P. V. Thakre, Member

### **ORGANISING COMMITTEE**

Dr. P. H. Zope  
Mr. A. C. Wani  
Mr. Dhanesh Patil  
Mr. Nilesh Mahajan  
Mr. Satpal Rajput

### **REGISTRATION LINK**

No Registration Fee  
Click on link for Registration or scan QR code  
<https://forms.gle/iKNKJcm1emRiPwbP9>



### **AICTE Sponsored**

(Vide Letter No. 34-66/492/FDC/STTP/Policy-1/2019-20, dated 10/08/2020)

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**(Under AQIS Scheme)**  
**23rd to 28th Nov. 2020**

### **ORGANIZED BY**

Department of Electronics & Telecommunication and  
Department of Electrical Engineering



**Shram Sadhana Bombay Trust's**  
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**BAMBHORI, POST BOX NO. 94, JALGAON – 425001 (M.S.)**

Office: 0257-2258391/93  
Fax: 0257-2258392  
Website: - www.ssoctjalgaon.ac.in

## ABOUT INSTITUTE

Shram Sadhana Bombay Trust runs College of Engineering & Technology, Bambhori, Jalgaon, which is one of the important industrial town & district headquarters of Maharashtra State. SSBT's 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 B++ grade.

### Under Graduate (UG) courses:

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

### Ph.D. Programmes:

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Chemical Engineering  
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Electrical Engineering  
Electronics & Tele. Engineering  
Mechanical Engineering

## ABOUT E&TC DEPARTMENT

In the establishment year of college 1983, the Electronics Engg. Branch was started & as per the need of time it was converted to Electronics and Telecommunication from academic year 2001. The department has been NBA Accredited by National Board of Accreditation (NBA) Committee constituted under AICTE for three times. During last 37 years, the department developed the twelve well equipped and furnished labs along with Seminar room, departmental library, separate departmental Computer Lab with soft wares like MATLAB, XILINX, DSP, ULTIBOARD, ORCAD etc, & reception of Eklavya Channel from IIT Powai for students. The present intake of the department is 60. The department has maintained the track of excellent results by securing 1st Rank and Gold Medal at university level examination. The department has ten well equipped laboratories for UG and two labs for PG. Department has recognized research laboratory under Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, Maharashtra. It has highly-qualified, devoted & dedicated team of teaching staff members. A conducive environment exists in the department for both students & staff.

## ABOUT ELECTRICAL DEPARTMENT

Department of Electrical Engineering is established in year 1999 with an intake of 60. The department was accredited for 5 years by N.B.A., New Delhi. The department has maintained the track of excellent results by securing 1<sup>st</sup> 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, Prince of Sonkhla University, Thailand, to enhance the quality based educational experience for students, researchers as well as faculties. Hands-on-training programs are organized regularly. Department has 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.

## INTRODUCTION

Every systems and machines universally depends on power electronics for the ability to run efficiently and sustainably. Power electronics is the application of solid-state electronics for the control and conversion of electric power. It applies to both the systems and products involved in converting and controlling the flow of electrical energy, allowing the electricity needed for everyday products to be delivered with maximum efficiency in the smallest and lightest package.

According to an article by ABB, about 40% of the world's power needs are met by electrical energy. That number is quickly rising as the trend towards renewable energy sources has increased. Without power electronics, this energy cannot be harnessed and delivered efficiently and energy from renewable sources, such as solar and wind, could not be fed into the electricity grid. Power electronics allow solar energy to be used by converting the Direct Current energy produced by solar panels into AC, used in the commercial electrical grid. Wind energy also needs to be converted and must be fed into a grid at a constant frequency despite changing wind conditions. Other forms of alternative power such as thermal, hydro and nuclear also take advantage of the benefits of power electronics to effectively deliver power. Power electronics is not only used to deliver and control power in the electric grid, but it is also used in numerous everyday devices.

Everything right from power steering in car, battery chargers, cell phones, and microwaves utilize power electronics. The use of this technology can increase productivity and decrease costs for the manufacturer and the consumer. Power electronics also allow for the variance of electric motor drive speeds, reducing the amount of energy consumed by making processes more efficient. Without this technology electric motors would always run at full speed consuming more energy than necessary. Power electronics converters also conserve energy by making it possible to transport electricity over long distances with minimal loss by transforming alternating current (AC) into high-voltage direct current (HVDC) and vice-versa.

Advances in power electronics allow power to be delivered in a more dependable and less costly manner saving both energy and costs for the consumer.

## ABOUT STTP

Short Term Training Program (STTP) intends to conduct faculty trainings through financial assistance from AICTE (under AQIS scheme) to enable faculty members in the field of technical education to introspect and learn techniques that can help prepare students for active and successful participants in a knowledge society. This STTP will definitely enhance the knowledge of every researcher, faculty and students working in power electronics area. The participants will also be able to gain practical knowledge during the practical session to be conducted by National Infotech, Surat. National InfoTech (NITech) is working in the field of power electronics, embedded system development and custom industrial automation. NITech comes into existence in the year of 2001 initially started with as training centre in embedded system, power electronics, industrial instrumentation and automations. Later NITech diverted for developing educational trainers for academic institutes and industrial solution.

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## COURSE CONTENTS

1. Fundamentals of Power Electronics
2. Power Electronic Converters and Inverters
3. Control Strategies in Power Electronics Drives
4. Role of Power Electronics in Electric Vehicles
5. Power quality issues
6. Power quality improvement techniques
7. Simulation and Modeling of Power Electronic Drives
8. Open loop Scalar Control and Closed loop Control of Induction Motor with SPWM and SVM.
9. Vector and Direct Torque Control of Induction Motor
10. Control of Electronically Commuted DC (BLDC) Motor and Permanent Magnet Synchronous Motor

## RESOURCE PERSONS

1. Dr. Rakesh Kumar Saxena, Director, Shri G. S. Institute of Technology & Science, Indore, Madhya Pradesh.
2. Dr. Mukesh Singh, Thapar Institute of Engineering & Technology, Patiala, Punjab
3. Dr. Mahmasraf A. Mulla, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat
4. Dr. Nitin Gupta, MNIT, Jaipur, Rajasthan
5. Dr. Lalit Kumar, NIT, Raipur, Chhattisgarh
6. Dr. Paresh J. Shah, SSBT's College of Engineering and Technology, Jalgaon
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**(Phase-III)**

**(Under AQIS Scheme)**

**14<sup>th</sup> to 19<sup>th</sup> December, 2020**

### **ELIGIBILITY AND SELECTION CRITERIA**

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Note: A Evaluation Test will be conducted at the end of program and Certificates will be issued only to those participants attending all sessions of STTP and who qualifies the test with 60 % marks.

### **IMPORTANT DATES**

Last date of Registration : 09/12/2020

Confirmation to the participants: 11/12/2020

### **CORRESPONDENCE**

**Dr. Prashant V. Thakre**

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 pvthakre2006@rediffmail.com, 9881015375

**Mr. N. S. Mahajan**

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## COURSE CONTENTS

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2. Power Electronic Converters and Inverters
3. Control Strategies for Choppers Applications
4. Role of Power Electronics in Solar Applications
5. Role of Power Electronics in Industrial Applications
6. Experimentation on PV Solar Applications
7. Real-time tracing of Solar PV curve and its characteristics
8. Implementation of MPPT algorithm of Solar PV
9. Grid synchronization using PLL/FLL
10. Implementation of PV-Inverter and PV-STATCOM

## RESOURCE PERSONS

1. Dr. Chetan Singh Solanki, Indian Institute of Technology Bombay
2. Dr. Ragavan Kanagaraj, Indian Institute of Technology Gandhinagar
3. Dr. Mahmadasraf A. Mulla, Sardar Vallabhbhai National Institute of Technology, Surat, Gujrat
4. Dr. A. K. Panchal, Sardar Vallabhbhai National Institute of Technology, Surat, Gujrat
5. Dr. Paresh J. Shah, SSBT's College of Engineering and Technology, Jalgaon, Maharashtra
6. Dr. Prashant V. Thakre, SSBT's College of Engineering and Technology, Jalgaon, Maharashtra
7. Mr. M. M. Ansari, SSBT's College of Engineering and Technology, Jalgaon, Maharashtra.

Date: 26/09/2020

To,

The Principal,  
SSBT's College of Engineering & Technology,  
Bambhori, Jalgaon

Through: HOD

*26/9/2020*

*Permitted.  
To,  
P.R.  
for needful.  
26.9.2020*

**Subject:** Permission to organize AICTE sanctioned three Short Term Training Programs through online mode under AQIS 2019-20.

**References:** 1. AICTE Sanctioned letter no. 34-66/492/FDC/STTP/Policy-1/2019-20, dated 10/08/2020.  
2. AICTE letter regarding the conduction of STTP through online mode, dated 14/09/2020.

Respected Sir,

As per the above-mentioned subject, AICTE has sanctioned a Short Term Training Program on "Digitally Controlled Power Converters for Industrial and Renewable Applications". The amount sanctioned for this STTP is Rs. 366667/- (Rupees Three Lakhs Sixty Six Thousand Six Hundred and Sixty Seven only).

As per AICTE letter, dated 14/09/2020, we have to conduct three STTP through online mode on the same topic which has been approved by AICTE. Expenditure for each STTP as per mentioned in the letter is Rs. 93000/-. The tentative budget for each STTP is as follows.

Sr. nos.	Details	Amount in rupees
1	Honorarium to course coordinator	5000
2	Honorarium to Experts/ Resource Persons	75000
3	Lab Attendant engaged during lab practices	3000
4	Miscellaneous	10000
	<b>Total</b>	<b>93000</b>

Total Budget for Three STTP through online mode.: Rs. 93000/- X 3 = Rs. 279000/-

It is kindly requested to permit us to organize and approve the above mentioned budget for three Short Term Training Programs through online mode.

Thanking You.

*Dr. P. J. Shah*  
*26/9/2020*

Dr. P. J. Shah  
Coordinator  
Professor, E&TC Deptt.

Enclosed: AICTE Sanctioned letters

*STTP Coordinator for*

*Do the needful as per  
guidelines of AICTE  
speed  
03/10/2020*

## SSBT's College of Engineering and Technology, Jalgaon, Maharashtra

AICTE sponsored online Short Term Training Program on “Digitally Controlled Power Converters for Industrial and Renewable Applications” (Phase-I) under AQIS scheme from 26<sup>th</sup> to 31<sup>st</sup> October 2020.

(Theme: Power Converters)

### Program Schedule

Date	26/10/2020	27/10/2020	28/10/2020	29/10/2020	30/10/2020	31/10/2020
Session 1 11:00-12:00	<b>Inauguration (10:30-11:00)</b>	Development of Grid Interactive Solar Water Pump (Dr. M. A. Mulla)	Digital Control of Power Converters for Photovoltaic Supply Systems. (Dr. Shailendra Sharma)	Analysis of Power Converters and its applications (Dr. P. J. Shah)	Artificial Intelligence in Power Electronics And Drive Control Applications (Dr. K. B. Khanchandani)	Multilevel Inverters: Current Research Trends (Dr. Krishna Kumar Gupta)
	Fuzzy Logic Control for Power Electronics (Dr. Shailendra Jain)					
Session 2 12:00- 13:00	Fuzzy Logic Control for Power Electronics (Dr. Shailendra Jain)	Development of Grid Interactive Solar Water Pump (Dr. M. A. Mulla)	Digital Control of Power Converters for Photovoltaic Supply Systems. (Dr. Shailendra Sharma)	Study and Comparative Analysis of Solar PV Panels (Dr. P. V. Thakre)	Artificial Intelligence in Power Electronics And Drive Control Applications (Dr. K. B. Khanchandani)	Multilevel Inverters: Current Research Trends (Dr. Krishna Kumar Gupta)
13:00-14:30	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>
Session 3 14:30-15:30	Lab 1 Power Converter Development: Discrete Time Simulation in MATLAB/Simulink (National Infotech, Surat)	Lab 2 Interfacing STM32 Microcontroller with MATLAB and Hardware (National Infotech, Surat)	Lab 3 Interfacing LCD, Keyboard, ADC with STM32 Microcontroller (National Infotech, Surat)	Lab 4 Development of Inverter Circuits with STM32 Microcontroller (National Infotech, Surat)	Lab 5 Development of Three-phase SPWM and SVM Inverter Circuits with STM32 Microcontroller (National Infotech, Surat)	<b>Valedictory Function</b>
Session 4 15:30-16:30						



**Dr. P. J. Shah**

Convener

Professor, Electronics and Telecommunication Department

## SSBT's College of Engineering and Technology, Jalgaon, Maharashtra

AICTE sponsored online Short Term Training Program on “Digitally Controlled Power Converters for Industrial and Renewable Applications” (Phase-II) under AQIS scheme from 23<sup>rd</sup> to 28<sup>th</sup> November 2020.

(Theme: Industrial Drives and Power Quality)

### Program Schedule

Date	23/11/2020	24/11/2020	25/11/2020	26/11/2020	27/11/2020	28/11/2020
Session 1 11:00-12:00	<b>Inauguration (10:30-11:00)</b> Chief Guest: Dr. Rakesh Saxena	Harmonics: Problems and Solutions (Dr. Nitin Gupta)	Role of Electric Vehicle in Smart Grid (Dr. Mukesh Singh)	Power Electronics Converter and It's Control for Electric Vehicles (Dr. Laltikumar Sahu)	Field Oriented Control of Permanent Magnet Synchronous Motor (PMSM) (Dr. M. A. Mulla)	Power Quality Improvement of Power Supplies using FPGA (Dr. P. J. Shah)
	<b>Keynote speech:</b> Digitization of Electrical System and Scope for Testing and Consultancy (Dr. Rakesh Saxena)					
Session 2 12:00- 13:00	<b>Keynote speech:</b> Digitization of Electrical System and Scope for Testing and Consultancy (Dr. Rakesh Saxena)	Harmonics: Problems and Solutions (Dr. Nitin Gupta)	Role of Electric Vehicle in Smart Grid (Dr. Mukesh Singh)	Power Electronics Converter and It's Control for Electric Vehicles (Dr. Laltikumar Sahu)	Field Oriented Control of Permanent Magnet Synchronous Motor (PMSM) (Dr. M. A. Mulla)	Power Quality Improvement of Power Supplies using FPGA (Dr. P. J. Shah)
13:00-14:30	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Break</b>	<b>Valedictory Function (* 13:00 – 14:00)</b> Chief Guest: Dr. S. L. Badjate
Session 3 14:30-15:30	Lab 1 Exploring WAIJUNG blockset with Matlab (National Infotech, Surat)	Lab 2 Open loop Scalar Control of Induction Motor with SPWM and SVM (National Infotech, Surat)	Lab 3 Closed loop Control of Induction Motor (National Infotech, Surat)	Lab 4 Vector and Direct Torque Control of Induction Motor (National Infotech, Surat)	Lab 5 Control of Electronically Commutated DC (BLDC) Motor (National Infotech, Surat)	
Session 4 15:30-16:30						



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Convener

Professor, Electronics and Telecommunication Department

## SSBT's College of Engineering and Technology, Jalgaon, Maharashtra

AICTE sponsored online Short Term Training Program on “Digitally Controlled Power Converters for Industrial and Renewable Applications” (Phase-III) under AQIS scheme from 14<sup>th</sup> to 19<sup>th</sup> December 2020.

(Theme: Renewable Applications)

### Program Schedule

Date	14/12/2020	15/12/2020	16/12/2020	17/12/2020	18/12/2020	19/12/2020
<b>Session 1</b> 11:00-12:00	Inauguration (10:30-11:00) Chief Guest: Dr. Chetan Singh Solanki, IIT Bombay	Grid Connected Wind Energy Conversion System (Dr. Ragavan Kanagaraj, IIT Gandhinagar)	Digitally Controlled Converter System for Photovoltaic Applications (Dr. P. V. Thakre, SSBTCOET, Jalgaon)	Design & Development of VSC-based FACT Controller (Dr. M. A. Mulla, SVNIT, Surat)	Analysis of Power electronic converters for photovoltaic systems (Dr. P. J. Shah, SSBTCOET, Jalgaon)	Solar Photovoltaic's Fundamentals and applications (Dr. A. K. Panchal, SVNIT, Surat)
	Energy Swaraj: Essence of Sustainability (Dr. Chetan Singh Solanki, IIT Bombay)					
<b>Session 2</b> 12:00- 13:00	Energy Swaraj: Essence of Sustainability (Dr. Chetan Singh Solanki, IIT Bombay)	Grid Connected Wind Energy Conversion System (Dr. Ragavan Kanagaraj, IIT Gandhinagar)	Digitally Controlled Converter System for Photovoltaic Applications (Dr. P. V. Thakre, SSBTCOET, Jalgaon)	Design & Development of VSC-based FACT Controller (Dr. M. A. Mulla, SVNIT, Surat)	On Grid PV Solar Rooftop Power Plant Installation and Assessment (Mr. M. M. Ansari, SSBTCOET, Jalgaon)	Solar Photovoltaic's Fundamentals and applications (Dr. A. K. Panchal, SVNIT, Surat)
<b>13:00-14:30</b>	Break	Break	Break	Break	Break	Break
<b>Session 3</b> 14:30-15:30	Lab 1 Exploring WAIJUNG blockset with Matlab (National Infotech, Surat)	Lab 2 Implementation of MPPT algorithm of Solar PV (National Infotech, Surat)	Lab 3 Grid synchronization using PLL/FLL (National Infotech, Surat)	Lab 4 Implementation of PV-Inverter (National Infotech, Surat)	Lab 5 Implementation of PV-STATCOM (National Infotech, Surat)	Valedictory Function
<b>Session 4</b> 15:30-16:30						



**Dr. P. J. Shah**

Convener

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AICTE sponsored online Short Term Training Program on "Digitally Controlled Power Converters for Industrial and Renewable Applications" (Phase-I) under AQIS scheme from 26<sup>th</sup> to 31<sup>st</sup> October 2020.

Feedbacks

Username	Name of the Participants	Profession	Affiliation	Contact Number/Whats App Number	How do you rate today's session?	How was the quality of audio & video	How do you rate today's practical session?	Overall satisfaction level	How do you plan to implement your learning from this session in your regular teaching and/or research work?
jjawale@aipune.edu.in	JITENDRA JAWALE	Academic	Pune University (SPPU)	9923565542	5	5	5	5	Nice
mdnasarayobamu@gmail.com	MD Nasar Ayoob	Academic	Lecturer in Department of Electrical and Electronics Engineering	9528730501	5	5	5	5	By webinar and project work
chandrakironji@gmail.com	Wawhal Soniya	Academic	Assistant Professor	8766763528	5	5	5	5	In academic and research
yugalsahu87@gmail.com	Yugal Kishor	Research	NIT Raipur	8103095114	5	5	5	5	excellent hardware understanding
vsnavale@aismmscoe.com	Vaishnavi Sunil Navale	Academic	AISMMSCOE	9881097035	5	5	5	5	Theory classes and practical sessions
sanjaypatil2771@gmail.com	Sanjay Purushottam Patil	Academic	D.N.Patel College of Engineering, Shahada	9850249158	5	5	5	5	Practical lab and Theoretical lecture
ganeshbhadane88@gmail.com	Ganesh Gulabrao Bhadane	Academic	D N PATEL COLLEGE OF ENGINEERING SHAHADA	9922720133	5	5	5	5	Ppt
avjitcha@yahoo.co.in	Avijit Chakraborty	Industry	Yes	8145775255	4	4	4	4	Yes
dnyangcoej@gmail.com	Dnyaneshwar Marotrao Gaikwad	Academic	Assistant Professor	808701583	5	5	5	5	by exploring more about Artificial intelligence, neural network
jbp4@rediffmail.com	Jayashree Hiralal Patil	Academic	P.S.G.V.P.Mandal's D.N.Patel College of Engineering, Shahada	9420852606	5	5	5	5	Very basic concepts get cleared
shirishamesa1031@gmail.com	M.Shirisha	Academic	JNTUACEA	9515993545	5	5	5	5	Nice
sanfranathi.anusha2425@gmail.com	S.Anusha	Academic	JNTUA College of Engineering, Anantapur	9160542333	4	4	4	4	can try in my phd work
mangala_dev@rediffmail.com	Mangala Rambhauji Dhotre	Academic	Assistant Professor	9421516531	5	5	5	5	In research
jeevau451@gmail.com	Uma Maheswari.G	Academic	Anna university	9443513801	5	5	5	5	Research Work
atulkarode@gmail.com	Atul H Karode	Academic	Assistant Professor	9850087247	4	5	4	4	Using artificial intelligence tools and software
rblohani@gec.ac.in	Dr. RAJESH B LOHANI	Academic	GEC GOA	9145062168	4	4	4	4	research work

vijay.nerk-ar@gmail.com	Vijay Bhagawan Nerkar	Academic	D.N.Patel COE Shabada	9763683284	5	5	5	5	5	5	Ppt
poongodkandadasamyee@paavni.edu.in	poongodi. K. K	Academic	Associate Professor	9487202788	5	5	5	5	5	5	Lab session
moyukhmandaljee@gmail.com	Moyukh Mandal	Academic	P.G STUDENT	7602937199	5	4	5	5	5	5	NOT DECIDED YET.
suso.suva@gmail.com	Susovan Pranamik	Research	Kalyani Government Engineering College	8348813370	4	4	4	4	4	4	Research
smshembekar@gmail.com	Sahas Manohar Shembekar	Academic	Shram Sadhana Bombay Trust's College of Engineering and Technology, Bambhori, Jalgaon	9922691649	5	5	5	5	5	5	Research work
krushilpunwatkar1975@gmail.com	Krushil Manohar Punwatkar	Academic	Associate professor	9764996822	5	5	5	5	5	5	Improve students knowledge
waniac7095@gmail.com	Amol Chandrakant Wani	Academic	SSBT COET Bambhori Jalgaon	9850082361	5	5	5	5	5	5	In conducting practical sessions of students
atulgandhi1987@gmail.com	Atul Gandhi	Research	Sangam university, bhilwara	9462241388	4	4	4	4	4	4	use these concept
vinildani@gmail.com	W.VINILDANI	Academic	Ap	9655835503	5	5	5	5	5	5	Nil
vinod.patel293@gmail.com	Vinodkumar P. Patel	Academic	Assistant Professor	7875382520	5	5	5	5	5	5	Thanks
manishchavan4@gmail.com	Manish Chavan	Research	Visiting Faculty	7276505977	5	5	5	5	5	5	Very usefull
k.gupta15312@gmail.com	KIRTI GUPTA	Research	Indian Institute of Technology, Delhi	9454291955	4	4	4	4	4	4	In research work publishing good articles
prakashvajin@gmail.com	PRAKASH C	Academic	JCT COLLEGE OF ENGINEERING AND TECHNOLOGY	7010120569	5	5	5	5	5	5	Yes I am implementation of my research work
karra.vijay@gmail.com	Karra Vijay Kumar	Academic	SPPU	9823256569	5	5	5	5	5	5	Very usefull
mominshahbazmlg@gmail.com	Momin Shahbaz Akhter Riyaz Ahmed	Academic	SPPU	8237151533	5	5	5	5	5	5	Forward all knowledge gained here to the students
devikamothukuri@gmail.com	M.DEVIKA RANI	Academic	Prasad v potluri siddhartha institute of technology	9000218909	5	5	5	5	5	5	Practice,ppt
sivapriyan@gmail.com	Sivapriyan R	Academic	Sir MVIT Bangalore, Karnataka	9945603061	5	5	5	5	5	5	Nice
dnyanadaakolhe@gmail.com	Dnyanada Dinkar Kolhe	Academic	Godavari Foundation's Godavari College of Engineering, Jalgaon, Maharashtra	8408008264	5	5	5	5	5	5	Practice,ppt
archiksdm@gmail.com	Arthak Sadhukhan	Academic	Kalyani Government Engineering College, West Bengal	7278694572	5	5	5	5	5	5	Forward all knowledge gained here to the students
mohsingangai@gmail.com	Mohsin Salim Gangat	Academic	JIEMS, Akkaikuva	9376639338	5	5	5	5	5	5	Practice,ppt
vspawar1971@gmail.com	Mr.Vijay S.Pawar	Academic	SSBT'S College Of Engineering und Technology Bambhori Jalgaon	9421637700	5	5	5	5	5	5	Very usefull

kalpmahajan@gmail.com	Kalpesh Madhav Mahajan	Academic	KCES's College of Engineering & Management, Jalgaon	9860985400	5	5	5	5	5	Nice
shekhar_srs@rediffmail.com	Dr. S. R. Suralkar	Academic	SSBT's College of Engineering and Technology, Bambhori, Jalgaon		5	5	5	5	5	Very usefull
amit2010borole@gmail.com	Amit Suhas Borole	Academic	SSBT's College of Engineering and Technology, Bambhori, Jalgaon	8600273686	5	5	5	5	5	Forward all knowledge gained here to the students
mgwanisir@gmail.com	Dr. M. G. Wani	Academic	JSPM's Imperial College of Engineering & Research, Wagholi, Pune	9225626881	5	5	5	5	5	Very usefull
suji@sxcee.edu.in	P Suji Garland	Academic	ST.XAVIER'S CATHOLIC COLLEGE OF ENGINEERING, NAGERCOIL, Tamilnadu	9442160882	5	5	5	5	5	Nice
nitushree24@gmail.com	Shubhangi Tayade	Academic	GP's Godavari College of Engineering, Jalgaon	7972840195	5	5	5	5	5	Very usefull
phzope@gmail.com	Dr. Panikaj Zope	Academic	SSBT's College of Engineering and Technology, Bambhori, Jalgaon		5	5	5	5	5	Practice,ppt
mujahidansari@gmail.com	M Mujahid Ansari	Academic	SSBT's College of Engineering and Technology Bambhori Jalgaon	9422864760	5	5	5	5	5	Forward all knowledge gained here to the students
patil.rupesh.rupesh@gmail.com	Rupesh Shantaram Patil	Academic	R C Patel Institute of Technology Shirpur	8600608806	5	5	5	5	5	Very usefull
rajendra.rcwatkar@gmail.com	Dr. Rajendra Motiramji Rewatkar	Academic	Datta Meghe Institute of Engineering ,Technology and Research Sawangi (Meghe ) Wardha	9923399409	5	5	5	5	5	Nice
priya.r@gmail.com	PRIYA R	Academic	Manakula Vinayagar Institute of Technology, Kalitheerthalkuppam, Puducherry	9994132524	5	5	5	5	5	Practice,ppt



**Dr. K. S. Wani**  
Principal

**PRINCIPAL**  
SSBT's College of Engineering & Technology  
Bambhori, Jalgaon-425001 (M.S.)



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Convener  
Professor, Electronics and Telecommunication Department

**SSBT's College of Engineering and Technology, Jalgaon, Maharashtra**  
**AICTE sponsored online Short Term Training Program on "Digitally Controlled Power Converters for Industrial and Renewable Applications" (Phase-III) under AQIS scheme from 14th to 19th December 2020.**

**Feedbacks**

Username	Name of the Participants	Profession	Affiliation	Contact Number/Whats App Number	How do you rate today's session?	How was the quality of audio & video	How do you rate today's practical session?	Overall satisfaction level	How do you plan to implement your learning from this session in your regular teaching and/or research work?
chandrakironji@gmail.com	Wavhal Soniya	Academic	Assistant Professor	8766763528	5	5	5	5	Academic
Vandanaischal@yahoo.com	Vandana	Academic	G.N.D.U	9465695120	4	4	4	4	Good session
nileshkuchekar9@gmail.com	Mr. KUCHEKAR NILESH DIGAMBAR	Academic	SPPU	9766467842	5	5	5	5	After identifying the need of today's session, very well aware about how to implement learning in teaching work so whenever required i will implement it.
skhedai786@gmail.com	SK HEDAI	Academic	MAKAUT, WB	8926787116	5	5	5	5	How sustainable energy is most important in this global
vaibhav.mainkar26@gmail.com	MR. VAIBHAV VIKAS MAINKAR	Academic	Asst. Prof. In S.P.M's College of Engineering	9049813870	5	5	5	5	Improve knowledge
yugalsahu87@gmail.com	Yugal Kisbor	Research	NIT Raipur	8103095114	4	4	4	4	Will be very helpful hardware implementation
nazrulshaikh2@gmail.com	SHAIKH NAZRUL	Research	North Orissa University, Baripada, Odisha, India	9861813678	4	4	4	4	At first I learn the update information, then I will implement as per the
ndchavan@somaiya.edu	Dr.N.D.Chavan	Academic	Autonomous	7710029444	5	5	5	5	Excellent session
mominshahbaznrl@gmail.com	Momin Shahbaz Akhter Rlyaz Ahmed	Academic	AICTE, SPPU	8237153533	5	5	4	5	All knowledge and concept which is gained in today's session that will be forwarded to the students.
bhatt tanmayh@gmail.com	TANMAY HITESHKUMAR BHATT	Academic	College of Food Processing Technology & Bio-Energy, Anand Gujarat	8511129042	4	4	5	4	by attending such virtual lectures and labs
suso.suva@gmail.com	SUSOVAN PRAMANIK	Research	Kalyani Govt. Engineering College	8348813370	4	4	4	4	Research
richard@krce.ac.in	RICHARD S P	Academic	K. RAMAKRISHNAN COLLEGE OF ENGINEERING (AUTONOMOUS)	9942915543	5	4	5	5	Useful for carrying out in research work
rblohani@gcc.ac.in	Dr Rajesh B Lohani	Academic	GEC	9145062168	4	5	4	4	Research
pushmuth@gmail.com	Dr. Puspendu Rakshit	Academic	Jagannath Kishore College Purulia West Bengal	9433468759	4	5	5	4	Not planned
svpawar1@gmail.com	Prof. S V Pawar	Academic	S S V P S B S Deore college of Engineering DHule.	9529539929	5	4	5	5	Theory & Practical both are research oriented, which are helpful to me.

rama.dalai@cutm.ac.in	Rama Prasanna Dalai	Academic	Centurion University of Technology & Management	9556786645	5	5	5	5	5	By Publication
waniac7095@gmail.com	Amol CHANDRAKANT WANI	Academic	SSBT COET Bmbhori Jalgaon	9850082361	5	5	5	5	5	Useful for carrying out in research work
rblohani@gce.ac.in	Rajesh B lohani	Academic	GEC	9145062168	4	4	4	4	4	research
vinod.patil293@gmail.com	Vinodkumar P. Patil	Academic	Assistant Professor	7873382520	5	5	5	5	5	Thank you
mdashfaqe07@gmail.com	MOHD ASHFAQUE TAAJ MOHD	Academic	Faculty	9595922220	4	4	4	4	4	I will try to simulate my theory lectures digitally
kulkarnigopal2302@gmail.com	GOPAL ANANTRAO KULKARNI	Academic	Shri Madhavrao Patil Mahavidyalaya, Murum. Dist. Osmanabad, Maharashtra.	7020078645	5	5	5	5	5	Nice
tanveerhusain.khatik@auktc.ac.in	Tanveer Husain Shaikh Feroz Khatik	Academic	Mumbai University	721811664	4	4	4	4	4	All knowledge and the practical exposure will be forwarded to the students and encourage them to attend such sessions in future.
deeptiarelapce@gmail.com	Deepti Arela	Academic	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur	9929417474	5	5	5	5	5	NA
komalingale8@gmail.com	Komal Kishor Ingale	Academic	GF's Godavari College of Engineering, Jalgaon	9665118825	4	4	4	4	4	Will teach to students which is helpful for their projects.
jeevau451@gmail.com	Uma Maheswari.G	Academic	Anna University	9443513801	5	5	5	5	5	Research Work
ceankush.1986@gmail.com	Ankush tandon	Academic	SKIT	9.17737E+11	5	4	5	5	5	In labs
baalaji2006@gmail.com	Manikandan Jayachandran	Research	Engineer	9894853005	4	4	4	4	4	try to avoid the background noise.
mhpatis@gmail.com	Mahesh Patil	Academic	Research scholar, GF's Godavari collage of engineering, jalgaon	9960558533	5	5	5	5	5	By using the knowledge gain can be implemented in studies of controlling Power converters.
chitrabhattacharya0@gmail.com	Chitra Bhattacharya	Academic	SGSITS, Indore	9425458190	5	4	5	4	4	Developing hardware
kameshrao02@gmail.com	C.H.KAMESH RAO	Research	NIT Raipur	9.17898E+11	5	5	5	5	5	No
alokkr97.ak@gmail.com	Alok Kumar	Academic	Shaheed Bhagat Singh State Technical Campus Ferozpur Punjab	9097631219	4	4	4	4	4	We can implement in regular teaching.
amitnaik12@gmail.com	AMIT NAIK	Academic	SGSITS INDORE	9685697174	5	5	5	5	5	add in tutorial session
mnenkavagondi@gmail.com	Menka Havagondi	Academic	Ugc	9503485803	5	5	5	5	5	Yes I will implement this in my academic activities.
krushilpunwatkar1975@gmail.com	Krushil Manohar Punwatkar	Academic	Associate professor	9764996822	5	5	5	5	5	Improve students knowledge
atulgandhi1987@gmail.com	Atul Gandhi	Research	Sangam university, bhilwara	9462241388	4	4	4	4	4	use these concept
vinildani@gmail.com	W VINILDANI	Academic	AP	9655835503	5	5	5	5	5	Nil
manishchavan4@gmail.com	Manish Chavan	Research	Visiting Faculty	7276505977	5	5	5	5	5	Very usefull
k.gupta1512@gmail.com	KIRTI GUPTA	Research	Indian Institute of Technology, Delhi	9454291955	4	4	4	4	4	In research work publishing good articles

prakashvijju@gmail.com	PRAKASH C	Academic	JCT College of Engineering & Technology	7010120569	5	5	5	5	5	5	Yes I am implementation of my research work
karra.vijay@gmail.com	Karra Vijay Kumar	Academic	SPPU	9823256569	5	5	5	5	5	5	Very usefull
devikamoohukuri@gmail.com	MDEVITKA RANI	Academic	Prasad v pofluri siddhartha institute of technology	9000218909	5	5	5	5	5	5	Practice.ppt
sivapriyan@gmail.com	Sivapriyan R.	Academic	Sir MVIT Bangalore, Karnataka	9945603061	5	5	5	5	5	5	Nice
dnyanadakothe@gmail.com	Dnyanada Dinkar Kothe	Academic	Godavari Foundation's Godavari College of Engineering, Jalgaon, Maharashtra	8408008264	5	5	5	5	5	5	Practice.ppt
archkssdn@gmail.com	Archak Sadhukhan	Academic	Kalyani Government Engineering College, West Bengal	7278694572	5	5	5	5	5	5	Forward all knowledge gained here to the students
mohsingangat@gmail.com	Mohsin Salim Gangat	Academic	JIEMS, Akalkuwa	9376639338	5	5	5	5	5	5	Practice.ppt
vspawar1971@gmail.com	Mr. Vijay S. Pawar	Academic	SSBT'S College Of Engineering and Technology Bambhori Jalgaon	9421637700	5	5	5	5	5	5	Very usefull
kajpeshmahajan@gmail.com	Kajpesh Madhav Mahajan	Academic	KCES's College of Engineering & Management, Jalgaon	9860985400	5	5	5	5	5	5	Nice



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**SSBT's College of Engineering and Technology, Jalgaon, Maharashtra**  
**AICTE sponsored online Short Term Training Program on "Digitally Controlled Power Converters for Industrial and Renewable Applications" (Phase-II) under AQIS scheme from 23rd to 28th November 2020.**

**Feedbacks**

Username	Name of the Participants	Profession	Affiliation	Contact Number/Whats App Number	How do you rate today's session?	How was the quality of audio & video?	How do you rate today's practical session?	Overall satisfaction level	How do you plan to implement your learning from this session in your regular teaching and/or research work?
mominshahbaznig@gmail.com	Momin Shahbaz Akhter Rlyaz Ahmed	Academic	SPPU	8237153533	4	5	5	5	All knowledge and the practical exposure will be forwarded to the students.
suso.suva@gmail.com	SUSOVAN PRAMANIK	Research	Kalyani Government	8348813370	4	4	4	4	Research
chandrakronji@gmail.com	Wawalh Soniya	Academic	Assistant Professor	8766763528	5	5	5	5	In academic and research
rblohani@gtec.ac.in	Rajesh B lohani	Academic	GEC	9145062168	4	4	4	4	research
vinod.patil293@gmail.com	Vinodkumar P. Patil	Academic	Assistant Professor	7875382520	5	5	5	5	Thank you
mdashfaqe07@gmail.com	MOHD ASHFAQE TAAJ MOHD	Academic	Faculty	9595922220	4	4	5	4	I will try to simulate my theory lectures digitally
kulkarnigopal2302@gmail.com	GOPAL ANANTRAO KULKARNI	Academic	Shri Madhavrao Patil Mahavidyalaya, Murum, Dist.	7020078645	5	5	5	5	Nice
tanveerhusain.khatik@aikt.ac.in	Tanveer Husain Shaikh Feroz Khatik	Academic	Mumbai University	721811664	4	4	4	4	All knowledge and the practical exposure will be forwarded to the students and encourage them to
deeptiarelapce@gmail.com	Deepti Arela	Academic	Swami Keshvanand Institute of Technology, Mana	9929417474	5	5	5	5	NA

komaljngale8@gmail.com	Komal Kishor Ingale	Academic	GF's Godavari College of Engineering, Jalgaon	9665118825	4	4	4	4	4	Will teach to students which is helpful for their projects.
yugalsahu87@gmail.com	YUGAL KISHOR	Research	National Institute of Technology Raipur	8103095114	4	4	5	5	5	good insight of power Electronics
jeevau451@gmail.com	Uma Maheswari.G	Academic	Anna University	9443513801	5	5	5	5	5	Research Work
ceankush.1986@gmail.com	Ankush tandon	Academic	SKIT	9.17737E+11	5	4	5	5	5	In labs
baalaji2006@gmail.com	Manikandan Jayachandran	Research	Engineer	9894853005	4	4	4	4	4	try to avoid the background noise.
mhpatis@gmail.com	Mahesh Patil	Academic	Research scholar, GF's Godavari	9960558533	5	5	5	5	5	By using the knowledge gain can be implemented in studies of
chitrabhattacharya0@gmail.com	Chitra Bhattacharya	Academic	SGSITS, Indore	9425458190	5	4	5	5	4	Developing hardware
kameshrao02@gmail.com	C.H.KAMIESH RAO	Research	NIT Raipur	9.17898E+11	5	5	5	5	5	No
alokkr97.ak@gmail.com	Alok Kumar	Academic	Shaheed Bhagat Singh State Technical	9097631219	4	4	4	4	4	We can implement in regular teaching.
amitnaik12@gmail.com	AMIT NAIK	Academic	SGSITS INDORE	9685697174	5	5	5	5	5	add in tutorial session
menkahavagondi@gmail.com	Menka Havagondi	Academic	Ugc							Yes I will implement this in my academic activities.
manikamprema16@gmail.com	M.MANICKAM	Academic	Yes, lecturer	9503485803	5	5	5	5	5	Student project work
ahussain591@gmail.com	DR. AFZAL HUSSAIN	Academic	MANIT, BHOPAL	8667384998	5	5	5	5	5	we have some projects where we can use this session experience.
vspawar1971@gmail.com	Mr. V. S. Pawar	Academic	SSBTS COET Bambhori Jalgaon	9893916826	5	5	5	5	5	By implementing practices discussed in practical sessions, theory demonstrations
				9421637700	5	4	5	5	5	

shamim0002@gmail.com	Shamim Ahmad Khan	Academic	Shibli National College Azamgarh	7007921129	5	5	5	5	5	No
ashfaqhussain691@gmail.com	ASHFAQ HUSSAIN	Research	RAJASTHAN TECHNICAL UNIVERSITY,	7976405751	5	5	5	5	5	YES
ravindrasmandloi@yahoo.com	Ravindra Singh Mandloi	Academic	Shri G. S. Institute of Technology & Science	9827214103	4	4	4	4	4	This experience is shared with students as a motivation tool
neeta.nemade@gmail.com	Dr. Neeta Nemade	Academic	Assistant professor	9766014551	3	4	3	3	3	Research field
prakashvajju@gmail.com	PRAKASH C	Academic	JCT COLLEGE OF ENGINEERING	7010120569	5	5	5	5	5	Yes
smshembekar@gmail.com	Suhas Manohar Shembekar	Academic	Shram Sadhana Bombay Trust's College of Engineering and Technology,	9922691649	5	5	5	5	5	For practical work
svpawar1@gmail.com	Prof. S V Pawar	Academic	S S V P S B S Deore college of Engineering, Dhule.	9529539929	5	5	5	5	5	Learn some new methods of electrical drives, which help me in research work
rohithkumars27@gmail.com	Mr. ROHITHKUMA	Academic	Nisarga Independent PU	9964086564	5	5	5	5	5	In my teaching.
pradnyanarvekar20@gmail.com	Pradnya Ravindra Narvekar	Academic	UGC	9175578196	5	5	5	5	5	yes.I will implement this in my academic work
panditsubhash@gmail.com	Subhash Vyankatrao	Academic	Faculty	9325030688	5	5	5	5	5	Speed control of motor using WAJUNG Blockset
jenar.kumar@gmail.com	Jenar Kumar Sinha	Industry	IGMH	9903307044	5	5	5	5	5	By using concept on real time examples
jitendrasingh2389@gmail.com	Jitendra Singh	Academic	SKIT, Jaipur	9314557275	5	4	5	5	4	-
sattayendra.seragi@gmail.com	Sattayendrasingh Akashsingh Seragi	Academic	DBATU, Lonere	9881969096	5	5	5	5	5	By making practical applications.

rajendrak20472@gmail.com	Rajendra B. Khule	Academic	Exchange information with	9890922471	5	5	5	5	5	Learning objective
vilas.bugade@dypvp.edu.in	Dr. Vilas Shamrao Bugade	Academic	Dr. D. Y. Patil Institute of Technology, Pimpri, Pune 411018	9922841809	4	5	5	5	4	In Power Electronics subject
atulkarode@gmail.com	Atul H Karode	Academic	SSBTS COET Bambhori Jalgaon	9850087247	5	5	5	5	5	digital involvement
mujtahidansari@gmail.com	M Mujtahid Ansari	Academic	SSBTS COET Bambhori Jalgaon	9422864760	5	5	5	5	5	Knowledgeable information and relevant to subject also useful for my career Sir
smb.ecd@gmail.com	Mrs. S. M. Badave	Academic	Marathwada Institute of Technology,	9890973068	5	5	5	5	5	Learning objective
waniac7095@gmail.com	Mr. Amol Chandrakant	Academic	SSBTS COET Bambhori Jalgaon	9950082361	5	5	5	5	5	By making practical applications.
naac5171@gmail.com	Shafecquerrahman Shabbir Ahmed	Academic	GF's Godavari College of Engineering, Jalga	9579654606	5	5	5	5	5	digital involvement
mohsingangat@gmail.com	Mohsin Salim Gangat	Academic	Jamia Institute of Engineering and Management Studies, Akalkuwa Nandurbar	9376639338	5	5	5	5	5	Knowledgeable information and relevant to subject also useful for my career Sir
manishchav4@gmail.com	Manish Chavan	Academic	Government College of Engineering	7276505977	5	5	5	5	5	Learning objective



**Dr. P. J. Shah**  
Convener

Professor, Electronics and Telecommunication Department



**Dr. K. S. Wani**  
Principal

**PRINCIPAL**  
SSBT's College of Engineering & Technology  
Bambhori, Jalgaon-425001 (M.S.)

**SSBT's College of Engineering & Technology, Bambhori, Jalgaon**

Date: 31-12-2020

**Completion report on AICTE sponsored online Short Term Training Program on "Digitally Controlled Power Converters for Industrial and Renewable Applications" (Phase-I, II, III) under AQIS scheme.**

AICTE had sanctioned the grant of Rs. 366667/- to Dr. Paresh J. Shah, Professor, Electronics and Telecommunication Department for conduct of Short Term Training Program on "Digitally Controlled Power Converters for Industrial and Renewable Applications" under AQIS scheme on 10<sup>th</sup> August with AICTE Sanctioned letter no. 34-66/492/FDC/STTP/Policy-1/2019-20, dated 10/08/2020. The permission was given to conduct it in physical mode. But due to pandemic, the COVID-19, most of the Institutes were facing difficulties in organization and conduct STTPs. Then AICTE sent letter to conduct STTPs through online mode. As per AICTE letter regarding the conduction of STTP through online mode, dated 14/09/2020, the Institute has to conduct more than one STTPs in multiple of Rs. 93000/- within the total grant received and should return balanced unspent amount to AICTE.

Accordingly institute has planned and conducted three STTPs on following dates.

Phase I – 26th to 31st October, 2020

Phase II – 23rd to 28th November, 2020

Phase III – 14th to 19th December 2020

As per the guidelines given in sanctioned letter, following committees were constituted,

**1. Steering Committee/ Project Monitoring Committee**

Sr. nos.	Name	Portfolio
1	Dr. K. S. Wani, Principal	Chairperson
2	Dr. P. J. Shah, Coordinator	Member Secretary
3	Dr. S. R. Suralkar, HOD	Member
4	Mr. V. S. Pawar, HOD	Member
5	Dr. P. V. Thakre, Expert	Member

**2. Working Committee (Institute Level)**

Sr. nos.	Work	Roles and Responsibilities	Faculty Members
1	Technical	Computer, Internet and hardware etc. arrangement	Dr. P. H. Zope Mr. Satpal Rajput
2	Session	Organizing sessions, paper setting and assessment, feedback, attendance etc.	Mr. N. S. Mahajan
3	Finance	Maintaining the details of expenditure and invoice/ Vouchers etc.	Mr. A. C. Wani
4	Designing and Printing	Designing & Printing Brochure, Certificates, banners, PPT/Material of session in CD, etc.	Mr. D. S. Patil
5	Laboratory Attendant	Engaging laboratory, arranging instruments etc.	Mr. Y. H. Patil

Electronics & Telecommunication Engineering Department and Electrical Engineering Department of SSBT's College of Engineering and Technology, Jalgaon, Maharashtra, have jointly organized this AICTE sponsored online National Level Short Term Training Program.

The main objective of this program was to update the faculty members, industry persons and research scholars about the use of advanced power electronic systems in industrial and renewable applications. The program aims to address key issues such as designing, modeling, implementation, analysis and study of associated power electronic controllers for monitoring and protection of various appliances for industrial use. We know Power Electronics holds today is the most growing and popular field in Electrical and Electronics Engineering, most of the electrical applications are controlled by power electronics converters due to its important features like high efficiency, small size and low cost. Participants, who have joined this STTP from different states, such as Uttar Pradesh, West Bengal, Andhra Pradesh, Karnataka, Orissa, Madhya Pradesh, Chhattisgarh, Rajasthan, Gujarat, Himachal Pradesh, Haryana, New Delhi, Goa and of course Maharashtra state.

**All sessions were conducted by eminent speakers in the research, from all over India:**

*The resource persons for Phase I:*

1. Dr. Shailendra Jain, Director, Sant Longowal Institute of Engineering & Technology, Longowal, Punjab
2. Dr. Mahmadasraf A. Mulla, Sardar Vallabhbhai National Institute of Technology, Surat
3. Dr. Shailendra Kumar Sharma, Shri G. S. Institute of Technology & Science, Indore
4. Dr. Krishna Kumar Gupta, Thapar Institute of Engineering & Technology, Patiala
5. Dr. K. B. Khanchandani, Shri Sant Gajanan Maharaj College of Engineering, Shegaon.
6. Dr. Paresh J. Shah, SSBT's College of Engineering and Technology, Jalgaon
7. Dr. Prashant V. Thakre, SSBT's College of Engineering and Technology, Jalgaon

*The resource persons for Phase II:*

1. Dr. Rakesh Kumar Saxena, Director, Shri G. S. Institute of Technology & Science, Indore, Madhya Pradesh.
2. Dr. Mukesh Singh, Thapar Institute of Engineering & Technology, Patiala, Punjab
3. Dr. Mahmadasraf A. Mulla, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat
4. Dr. Nitin Gupta, MNIT, Jaipur, Rajasthan
5. Dr. Sanjay L. Badjate, Principal, S.B. Jain Institute of Technology, Management and Research, Nagpur
6. Dr. Lalit Kumar, NIT, Raipur, Chhattisgarh
7. Dr. Paresh J. Shah, SSBT's College of Engineering and Technology, Jalgaon
8. Dr. Prashant V. Thakre, SSBT's College of Engineering and Technology, Jalgaon

*The resource persons for Phase III:*

1. Dr. Chetan Singh Solanki, Indian Institute of Technology Bombay

2. Dr. Ragavan Kanagaraj, Indian Institute of Technology, Gandhinagar
3. Dr. Mahmadasraf A. Mulla, Sardar Vallabhbhai National Institute of Technology, Surat, Gujrat
4. Dr. A. K. Panchal, Sardar Vallabhbhai National Institute of Technology, Surat, Gujrat
5. Dr. Paresh J. Shah, SSBT's College of Engineering and Technology, Jalgaon, Maharashtra
6. Dr. Prashant V. Thakre, SSBT's College of Engineering and Technology, Jalgaon, Maharashtra
7. Mr. M. M. Ansari, SSBT's College of Engineering and Technology, Jalgaon, Maharashtra

All practical sessions were conducted by the team of National Infotech, Surat. National InfoTech is working in the field of power electronics, embedded system development and custom industrial automation and have a training center in embedded system, power electronics, industrial instrumentation, automations, and developing educational trainers for academic institutes and industrial solution. Mr. Viral M. Takodia is the Director-Technical and Mr. Mohammad Juned Saiyad is Training coordinator at National Infotech, Surat.

Three phases of AICTE sponsored online Short Term Training Program on "Digitally Controlled Power Converters for Industrial and Renewable Applications" under AQIS scheme have been completed successfully.

Thank you.



**Dr. P. J. Shah**  
Convener, AICTE Sponsored STTP



**Dr. K. S. Wani**  
Principal  
**PRINCIPAL**  
SSBT's College of Engineering & Technology  
Bembhori, Jalgaon-425001 (M.S.)



PROCEEDING ON

# AICTE SPONSORED SHORT TERM TRAINING PROGRAM 2020

THREE PHASES  
VIRTUAL SESSIONS

ORGANIZED BY

Department of Electronics & Telecommunication and  
Department of Electrical Engineering  
Shrama Sadhana Bombay Trust's  
College of Engineering and Technology  
Bambhori, Jalgaon

AICTE SPONSORED SHORT TERM TRAINING PROGRAM 2020

## PHOTOS AT A GLANCE



AICTE SPONSORED SHORT TERM TRAINING PROGRAM 2020



## PROCEEDING ON AICTE SPONSORED SHORT TERM TRAINING PROGRAM

**DIGITALLY CONTROLLED POWER CONVERTERS FOR INDUSTRIAL & RENEWABLE APPLICATIONS UNDER AQIS SCHEME PHASE-I, II & III**

### CHIEF PATRON

SHRI. RAOSAHEB D. SHEKHAWAT  
MANAGING TRUSTEE

### PATRONS

DR. K. S. WANI, PRINCIPAL  
DR. S. P. SHEKHAWAT, VICE PRINCIPAL

### CONVENER

DR. PARESH J. SHAH  
PROFESSOR, E&TC DEPARTMENT

### STEERING COMMITTEE

DR. K. S. WANI, CHAIRPERSON  
DR. P. J. SHAH, MEMBER SECRETARY  
DR. S. R. SURALKAR, MEMBER  
MR. V. S. PAWAR, MEMBER  
DR. P. V. THAKRE, MEMBER

### ORGANISING COMMITTEE

DR. P. H. ZOPE  
MR. A. C. WANI  
MR. DHANESH PATIL  
MR. NILESH MAHAJAN  
MR. SATPAL RAJPUT



Shrama Sadhana Bombay Trust's  
COLLEGE OF ENGINEERING AND TECHNOLOGY  
BAMBHORI, JALGAON

AICTE SPONSORED SHORT TERM TRAINING PROGRAM 2020 | 01



## Shrama Sadhana Bombay Trust's COLLEGE OF ENGINEERING AND TECHNOLOGY BAMBHORI, JALGAON

### ABOUT INSTITUTE

Shram Sadhana Bombay Trust runs the College of Engineering & Technology, Bambhori, Jalgaon, which is one of the important industrial towns & district headquarters of Maharashtra State. SSBT's 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 the National Board of Accreditation, New Delhi for three times, and presently NAAC accredited with B++ grade.

### UNDER GRADUATE (UG) COURSES

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

### P.H.D. PROGRAMMES

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

### ABOUT E&TC DEPARTMENT

In the establishment year of college 1985, the Electronics Engg. The branch was started & as per the need of time, it was converted to Electronics and Telecommunication from the academic year 2001. The department has been NBA Accredited by the National Board of Accreditation (NBA) Committee constituted under AICTE three times. During the last 37 years, the department developed twelve well-equipped and furnished labs along with a Seminar room, departmental library, separate departmental Computer labs with soft wares like MATLAB, XILINX, DSP, ULTIBOARD, ORCAD, etc., & reception of Eklavya Channel from IIT Powai for students. The present intake of the department is 60. The department has maintained the track of excellent results by securing 1st Rank and Gold Medal at university level examination. The department has ten well-equipped laboratories for UG and two labs for PG. Department has a recognized research laboratory under Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, Maharashtra. It has a highly-qualified, devoted & dedicated team of teaching staff members. A conducive environment exists in the department for both students & staff.

### ABOUT ELECTRICAL DEPARTMENT

Department of Electrical Engineering is established in the year 1999 with an intake of 60. The department was accredited for 5 years by N.B.A., New Delhi. The department has maintained the track of excellent results by securing 1st 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, Stuart, and watt Solution Pvt. Ltd., IIT Bombay, Prince of Songkhla University, Thailand, to enhance the quality-based educational experience for students, researchers as well as faculties. Hands-on-training programs are organized regularly. Department has 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.

AICTE SPONSORED SHORT TERM TRAINING PROGRAM 2020 | 02



Shram Sadhana Bombay Trust's  
**COLLEGE OF ENGINEERING AND  
TECHNOLOGY**  
BAMBHORI, JALGAON

**ABOUT STTP**

Short Term Training Program (STTP) intends to conduct faculty training through financial assistance from AICTE (under AQIS scheme) to enable faculty members in the field of technical education to introspect and learn techniques that can help prepare students for active and successful participants in a knowledge society. This STTP will definitely enhance the knowledge of every researcher, faculty, and student working in the power electronics area. The participants will also be able to gain practical knowledge during the practical session to be conducted by National Infotech, Surat. National InfoTech (NITech) is working in the field of power electronics, embedded system development, and custom industrial automation. NITech comes into existence in the year 2001 initially started as a training center in embedded systems, power electronics, industrial instrumentation, and automation. Later NITech diverted to developing educational trainers for academic institutes and industrial solutions.

**COURSE BACKGROUND**

AICTE had sanctioned the grant of Rs. 366667/- to Dr. Paresh J. Shah, Professor, Electronics and Telecommunication Department for the conduct Short Term Training Program on "Digitally Controlled Power Converters for Industrial and Renewable Applications" under AQIS scheme on 10th August with AICTE Sanctioned letter no. 34-66/492/FDC/STTP/Policy-1/2019-20, dated 10/08/2020. The permission was given to conduct it in physical mode. But due to pandemic, the COVID-19, most of the Institutes were facing difficulties in organization and conduct STTPs. Then AICTE sent a letter to conduct STTPs through online mode. As per the AICTE letter regarding the conduct of STTP through online mode, dated 14/09/2020, the Institute has to conduct more than one STTPs in multiple of Rs. 95000/- within the total grant received and should return the balanced unspent amount to AICTE. Accordingly, the institute has planned and conducted three STTPs on the following dates.

Phase I - 26th to 31st October 2020

Phase II - 23rd to 28th November 2020

Phase III - 14th to 19th December 2020.

**COURSE OBJECTIVES**

The main objective of this program was to update the faculty members, industry persons, and research scholars about the use of advanced power electronic systems in industrial and renewable applications. The program aims to address key issues such as designing, modeling, implementation, analysis, and study of associated power electronic controllers for monitoring and protection of various appliances for industrial use. We know Power Electronics holds today is the most growing and popular field in Electrical and Electronics Engineering, most of the electrical applications are controlled by power electronics converters due to its important features like high efficiency, small size, and low cost. Participants, who have joined this STTP from different states, such as Uttar Pradesh, West Bengal, Andhra Pradesh, Karnataka, Orissa, Madhya Pradesh, Chhattisgarh, Rajasthan, Gujarat, Himachal Pradesh, Haryana, New Delhi, Goa, and of course Maharashtra state.

All practical sessions were conducted by the team of National Infotech, Surat. National InfoTech is working in the field of power electronics, embedded system development, and custom industrial automation and have a training center in embedded systems, power electronics, industrial instrumentation, automation, and developing educational trainers for academic institutes and industrial solution. Mr. Viral M. Tarkadia is the Director-Technical and Mr. Mohammad Juned Saiyad is the Training Coordinator at National Infotech, Surat.

**PHASE - I**



Shram Sadhana Bombay Trust's  
**COLLEGE OF ENGINEERING AND  
TECHNOLOGY**  
BAMBHORI, JALGAON

**PHASE-I: 26TH TO 31ST OCTOBER 2020**

**ONE WEEK ONLINE SHORT TERM TRAINING PROGRAM ON DIGITALLY  
CONTROLLED POWER CONVERTERS FOR INDUSTRIAL AND RENEWABLE  
APPLICATIONS UNDER AQIS SCHEME**

**INTRODUCTION**

Every system and machine universally depends on power electronics for the ability to run efficiently and sustainably. Power electronics is the application of solid-state electronics for the control and conversion of electric power. It applies to both the systems and products involved in converting and controlling the flow of electrical energy, allowing the electricity needed for everyday products to be delivered with maximum efficiency in the smallest and lightest package.

**COURSE OBJECTIVES**

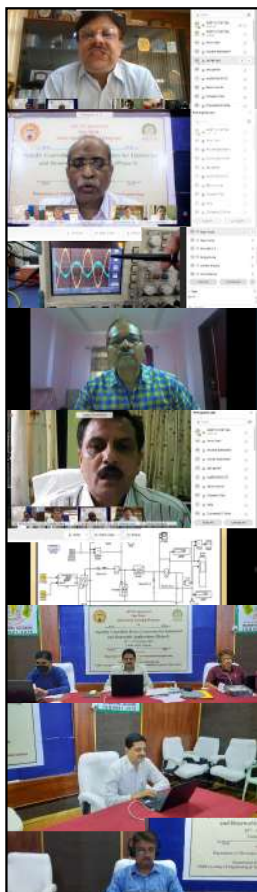
The main objective of this STTP is to update participants about the use of advanced power electronic systems in various applications. Power Electronics plays important role in achieving energy efficiency and a sustainable environment. The STTP aims to address key issues such as designing, modeling, implementation, analysis, and study of associated power electronic controllers for monitoring and protection of various appliances for industrial use. This workshop is intended to provide practical exposure to research scholars, faculty members, and industry personnel. Resource persons will be faculties from NITS, Industry Persons, and In house faculties.

**COURSE CONTENTS**

1. Fundamentals of Power Electronics
2. Power Electronic Converters and Inverters
3. Control Strategies In Power Electronic System
4. Role of Power Electronics in Solar Applications
5. Simulation and Modeling of Power Electronic Converters and Inverters
6. Interfacing STM32 Microcontroller with MATLAB and Hardware
7. Interfacing LCD, Keyboard, ADC with STM32 Microcontroller
8. Development of Three-phase SPWM and SVM Inverter Circuits with STM32 Microcontroller

**EMINENT SPEAKERS**

1. Dr. Shailendra Jain, Director, Sant Longowal Institute of Engineering & Technology, Longowal
2. Dr. Mahadasraf A. Mulla, Sardar Vallabhbhai National Institute of Technology, Surat
3. Dr. Shailendra Kumar Sharma, Shri G. S. Institute of Technology & Science, Indore
4. Dr. Krishna Kumar Gupta, Thapar Institute of Engineering & Technology, Patiala
5. Dr. K. B. Khanchandani, Shri Sant Gajanan Maharaj College of Engineering, Shegaon
6. Dr. Paresh J. Shah, SSBT's College of Engineering and Technology, Jalgaon
7. Dr. Prashant V. Thakre, SSBT's College of Engineering and Technology, Jalgaon



**PHASE I**  
26th to 31st October 2020

**DAY 1**

**INAUGURATION  
BY DR. SHAILENDRA JAIN**

**FUZZY LOGIC CONTROL FOR POWER  
ELECTRONICS  
BY DR. SHAILENDRA JAIN**

**DAY 2**

**DEVELOPMENT OF GRID INTERACTIVE SOLAR  
WATER PUMP  
BY DR. M. A. MULLA**

**DAY 3**

**DIGITAL CONTROL OF POWER CONVERTERS FOR  
PHOTOVOLTAIC SUPPLY SYSTEMS.  
BY DR. SHAILENDRA SHARMA**

**DAY 4**

**ANALYSIS OF POWER CONVERTERS AND ITS  
APPLICATIONS  
BY DR. P. J. SHAH**

**STUDY AND COMPARATIVE ANALYSIS OF SOLAR  
PV PANELS  
BY DR. P. V. THAKRE**

**DAY 5**

**ARTIFICIAL INTELLIGENCE IN POWER  
ELECTRONICS AND  
DRIVE CONTROL APPLICATIONS  
BY DR. K. B. KHANCHANDANI**

**DAY 6**

**MULTILEVEL INVERTERS: CURRENT RESEARCH  
TRENDS  
BY DR. KRISHNA KUMAR GUPTA**

**VALEDICTORY FUNCTION  
BY DR. KRISHNA KUMAR GUPTA**

**PHASE I / DAY 1**

**DR. SHAILENDRA  
JAIN**  
**P.H.D. (IITR), PDF (CANADA)**



Director  
Sant Longowal Institute of Engineering &  
Technology, Longowal, Punjab  
Specialization in Power Electronics

**TOPIC DELIVERED AT STTP:**

**FUZZY LOGIC CONTROL FOR POWER ELECTRONICS**

**ABSTRACT:**

Power electronics has developed rapidly during recent years. It involves the technologies of power semiconductor devices, converter circuits, electrical machines, and VLSI circuits, as well as advanced control theory. Fuzzy logic applications are presently one of the most active research areas in power-electronics. Among the non-linear control methodologies, fuzzy logic has recently been applied widely in power electronics. The success of fuzzy logic controllers seems to be mainly due to their ability to incorporate experience, intuition, and heuristics into the system instead of solely relying on mathematical models.

**OUTCOME:**

- The application of Fuzzy logic to power electronics and drives will continue to flourish in the near future.
- Most promising applications are those where classical control solutions cannot provide satisfactory performance, typically when the model of the plant is not available or highly non-linear, or when the system is subject to significant parameter variation.
- Fuzzy logic constitutes a powerful tool to translate human expert knowledge into automatic control strategy, a feature that can also be exploited in the design of diagnosis and supervisory control systems.

## PHASE 1 / DAY 2

### DR. M. A. MULLA PH. D.

Associate Professor  
Sardar Vallabhbhai National Institute of  
Technology, Surat, Gujarat  
Specialization in Power Electronics, Renewable  
Energy, Power Quality and Electrical Drives



#### TOPIC DELIVERED AT STTP:

#### DEVELOPMENT OF GRID INTERACTIVE SOLAR WATER PUMP

#### ABSTRACT:

This lecture aims to discuss the development of grid-interactive inverter utilizing the existing solar water pumping systems. The grid inverter is constructed without adding any extra power electronics interface to the existing solar water pumping systems.

#### OUTCOME:

- Importance of Renewable Sources, Solar Energy and Solar Water Pumping Systems (SWPS) Different Types of SWPS
- Mode of operation - Standalone, grid-connected
- Merits and demerits of SWPS
- Integrated PV inverter development using SWPS.

## PHASE 1 / DAY 3

### DR. SHAILENDRA SHARMA PDF, PH.D

Professor  
Shri G. S. Institute of Technology & Science,  
Indore  
Specialization in Power Electronics



#### TOPIC DELIVERED AT STTP:

#### DIGITAL CONTROL OF CONVERTERS FOR SOLAR POWER DRIVEN SUPPLY SYSTEM

#### ABSTRACT:

This presentation covers an overview of renewable energy systems. The emphasis is given on applications of solar PV-based supply systems including solar water pumping and HVAC systems. Various topological development and state of art control approaches used on the topic are delivered. Performances using developed prototypes and simulation models are investigated to give deep insight into the specific subject domains.

#### OUTCOME:

- Developed a basic understanding of solar photovoltaic supply systems for the grid and standalone operation.
- Technical exposure on design and development of solar PV supply system.
- Exposure to developing laboratories for experimentation work for UG/PG students.

## PHASE 1 / DAY 4

### DR. PARESH J. SHAH PH.D.

Professor  
SSBT's College of Engineering & Technology,  
Jalgaon, Maharashtra  
Specialization in Power Electronics, Power  
Quality, VLSI Design



#### TOPIC DELIVERED AT STTP:

#### ANALYSIS OF POWER CONVERTERS AND ITS APPLICATIONS

#### ABSTRACT:

Power electronic converters play the role of taking electrical energy from the power system and turning it into a suitable form needed by a motor. The power electronic converter may be determined according to the given power source and the driving motor. Analysis of power converters for emerging applications of power electronics in the areas of control of DC-AC converters for different applications control of DC-DC converters for different applications, control of AC-DC converters for different applications, control of AC-AC converters for different applications, control, and management of energy storage systems and control of AC drive systems.

#### OUTCOME:

- Understand analysis of basic power electronics converters, and design switched-mode regulators for various industrial applications.
- Comprehend the concepts of different power converters and their applications
- Evaluate the effects of various modulation techniques on the quality of input and output waveforms.
- PWM techniques for voltage and frequency control

## PHASE 1 / DAY 4

### DR. PRASHANT V. THAKRE PH.D.

Professor  
SSBT's College of Engineering & Technology,  
Jalgaon, Maharashtra  
Specialization in Solar Photovoltaic System



#### TOPIC DELIVERED AT STTP:

#### STUDY AND COMPARATIVE ANALYSIS OF PV PANELS

#### ABSTRACT:

Solar energy is one of the most promising renewable resources that can be used to produce electric energy through the photovoltaic process. Commercial PV cell first developed in bell lab in 1954 with 6% efficiency but only after they used in space programs in 1950's commercial interest surged up. PV system requires special design consideration due to the varying nature of solar power resulting from unpredictable and sudden changes in weather conditions, which change the radiation level as well as the cell operating temperature. This mandates an accurate and reliable simulation of the designed PV system prior to installation.

#### OUTCOME:

The employment of classical and modified single-diode model with avoiding series and shunt resistance for modeling the electrical performance characteristics of amorphous (a-si) and polycrystalline (p-si) PV modules at same operating conditions in the programming-based simulation script. Varying temperature from 600C to 800C with taking solar irradiance level constant 900 W/m<sup>2</sup> and Second, varying solar irradiance level from 600W/m<sup>2</sup> to 1000W/m<sup>2</sup> with considering constant module temperature 600C. This study provides a clear and concise understanding of the I-V and P-V characteristics of amorphous (a-si) and polycrystalline (p-si) PV modules which will serve as the comparative model for researchers in the field of modeling. Also, comparative study of the modeling I-V and P-V characteristics gives the new idea in near future for improvement in manufacturing technique in amorphous (a-si) and polycrystalline (p-si) technologies to improve power output and efficiency.

## PHASE 1 / DAY 5

### DR. K. B. KHANCHANDANI PH. D.

Professor  
Shri Sant Gajanan Maharaj College of Engineering, Shegaon,  
Maharashtra  
Specialization in Power Electronics & Drive control, Artificial  
Intelligence (Machine Learning & Deep Learning), Signal &  
Image processing, VLSI & Embedded System Design



#### TOPIC DELIVERED AT STTP:

### ARTIFICIAL INTELLIGENCE IN POWER ELECTRONICS & DRIVE CONTROL APPLICATIONS

#### ABSTRACT:

Artificial intelligence (AI) techniques, particularly neural networks, are recently having a significant impact on power electronics and motor drives. Neural networks have created a new and advancing frontier in power electronics, which is already a complex and multidisciplinary technology that is going through dynamic evolution in recent years. AI is nowadays a tool that allows computers to find solutions in a better and faster way. AI has the potential to improve the design of power converters. Modeling, simulation, and design of various estimation techniques for Induction motor drives, Sensorless Control of Induction Motor Drives, and Novel Neural Network-based Rotor Flux MRAS Speed Observers were discussed and presented in the Faculty development program.

#### OUTCOME:

- Various estate estimation techniques for drives control
- Modeling, simulation, and design of Model Reference Adaptive Systems for Induction motor drivers.
- Novel Neural Network-based Rotor Flux MRAS Speed Observers for drive control
- Various research topics in the area of power electronics and drives control.

## PHASE 1 / DAY 6

### DR. KRISHNA KUMAR GUPTA PHD IN ELECTRICAL ENGINEERING (POWER ELECTRONICS)

Assistant Professor  
Thapar Institute of Engineering and Technology,  
Patiala  
Specialization in Power electronics (multilevel  
converters)



#### TOPIC DELIVERED AT STTP:

### MULTILEVEL INVERTERS: CURRENT RESEARCH TRENDS

#### ABSTRACT:

Multilevel inverters are fast gaining importance both in industry and academia, mainly due to various advantages offered by them: use of low voltage rated power switches, low dv/dt stress on the switches and the load, much improved harmonic profile, the possibility of fault-tolerant operation, better efficiency and so on. As a result, in the last few decades, multilevel inverters are being researched with great intensity. This session, therefore, focused on the current research trends on multilevel inverters. First, common myths in relation to multilevel inverters were identified by the speaker, and arguments were presented to counter them. An example of Google Little Box Challenge was cited to explain multilevel inverters are fully suitable for low power low voltage applications and may improve the power density of the converter. Thereafter, with the help of suitable topologies, various research areas were identified and explained in detail, such as a reduction in device count, the strategic operation to prevent device failure, power equalization, switching optimization, and fault-tolerant operation.

#### OUTCOME:

Clear identification of current research trends in the field of multilevel inverters is expected to inspire the participants to carry out research in this area and contribute towards the incorporation of multilevel technology in applications of their choice.

## PHASE 1 / DAY 1-5

### PRACTICAL SESSIONS AT STTP: MULTILEVEL INVERTERS: CURRENT RESEARCH TRENDS BY NATIONAL INFOTECH, SURAT

#### LABORATORIES:

DAY 1: Power Converter Development: Discrete-Time Simulation in MATLAB/Simulink  
DAY 2: Interfacing STM32 Microcontroller with MATLAB and Hardware  
DAY 3: Interfacing LCD, Keyboard, ADC with STM32 Microcontroller  
DAY 4: Development of Inverter Circuits with STM32 Microcontroller  
DAY 5: Development of Three-phase SPWM and SVM Inverter Circuits with STM32 Microcontroller

#### ABSTRACT:

This course aims to teach participants hands-on based learning of the development of advanced power electronics converters. The development of power electronics converters involves designing logic circuits, driver circuits, and power circuits. Good knowledge of AC, DC power conversion is essential. This course aims to teach participants the overall design of power electronics systems. The development of logic circuit, how to perform discrete-time simulation in MATLAB Simulink, Interfacing STM32 Microcontroller with MATLAB and Hardware, Interfacing LCD, ADC, Development of Converter Circuits, Development of Three-Phase SPWM and SVM Inverter Circuits has been taught using ARM Cortex M4 32-bit microcontroller.

#### OUTCOME:

- Basics of Power Electronics Converters
- Discrete-Time Simulation in MATLAB Simulink
- Interfacing of STM32 Microcontroller with MATLAB and Hardware
- Learning of development of special circuits like 3-phase SPWM and SVM

## PHASE 1 / DAY 1-5

### MR. VIRAL M. TAKODIA DIRECTOR-TECHNICAL AT NATIONAL INFOTECH

His core area of work is Embedded System - Design and Development. He has completed his B.E. from Saurashtra University, Rajkot, and M.Tech [Research] from SVNIT, Surat. He has 14+ years of experience in Micro-controller based hardware and firmware development. Further expertise in Electrical and Power Electronics mixed-signal design and development. Experiences include industrial automation, PLCs, SCADA, communication Protocols, Team Lead, and after-hours support for clients. Also working in the field of IoT and I-IoT application programming and hardware design for offshore projects.



### MR. MOHAMMAD JUNED SAIYAD TRAINING COORDINATOR AT NATIONAL INFOTECH

He has completed B.E. and M.E. from Sarvajani College of Engineering & Technology, Surat, and having experience of 1 year. He has completed his M.E. Thesis on "Power Management of Battery/Ultracapacitor based Hybrid Energy Storage System for Electric Vehicle" under the guidance of NITech.

#### ABOUT NATIONAL INFOTECH:

National InfoTech (NITech) is working in the field of power electronics, embedded system development, and custom industrial automation. NITech comes into existence in the year 2001 initially started with a training center in embedded systems, power electronics, industrial instrumentation, and automation. Later NITech diverted to developing educational trainers for academic institutes and industrial solutions. NITech has developed a range of microcontroller trainers and add-on cards, educational driver Trainers, power electronics trainers, and advanced power electronics trainers to provide the student a complete platform to launch their career in power electronics, embedded systems, and industrial automation. National Infotech has developed a range of equipment to provide the student a complete platform to learn electrical, instrumentation, and electronics engineering principles and applications. Our products are in form of hardware and software that are used by colleges and universities. The training division of National Infotech imparts professional training to UG/PG/Ph.D. students and industrial professionals on power electronics, embedded systems, and industrial automation. These training programs are short-duration courses and aimed at bridging the gap between industry and academia.

**PHASE - II**



**Shrama Sadhana Bombay Trust's  
COLLEGE OF ENGINEERING AND  
TECHNOLOGY  
BAMBHORI, JALGAON**

**PHASE-II: 23RD TO 28TH NOVEMBER 2020**  
**ONE WEEK ONLINE SHORT TERM TRAINING PROGRAM ON DIGITALLY CONTROLLED  
POWER CONVERTERS FOR INDUSTRIAL AND RENEWABLE APPLICATIONS UNDER AQIS  
SCHEME**

**INTRODUCTION**  
Every system and machine universally depends on power electronics for the ability to run efficiently and sustainably. Power electronics is the application of solid-state electronics for the control and conversion of electric power. It applies to both the systems and products involved in converting and controlling the flow of electrical energy, allowing the electricity needed for everyday products to be delivered with maximum efficiency in the smallest and lightest package.

**COURSE OBJECTIVES**  
The main objective of this STTP is to update participants about the use of advanced power electronic systems in various applications. Power Electronics plays important role in achieving energy efficiency and a sustainable environment. The STTP aims to address key issues such as designing, modeling, implementation, analysis, and study of associated power electronic controllers for monitoring and protection of various appliances for industrial use. This workshop is intended to provide practical exposure to research scholars, faculty members, and industry personnel. Resource persons will be faculties from NITS, Industry Persons, and In house faculties.

**COURSE CONTENTS**

1. Fundamentals of Power Electronics
2. Power Electronic Converters and Inverters
3. Control Strategies in Power Electronics Drives
4. Role of Power Electronics in Electric Vehicles
5. Power quality issues and improvement techniques
6. Simulation and Modeling of Power Electronic Drives
7. Open-loop Scalar Control and Closed-loop Control of Induction Motor with SPWM and SVM.
8. Vector and Direct Torque Control of Induction Motor
9. Control of Electronically Commutated DC (BLDC) Motor and Permanent Magnet Synchronous Motor


**EMINENT SPEAKERS**

1. Dr. Rakesh Kumar Saxena, Director, Shri G. S. Institute of Technology & Science, Indore, Madhya Pradesh.
2. Dr. Mukesh Singh, Thapar Institute of Engineering & Technology, Patiala, Punjab
3. Dr. Mahmadsarf A. Mulla, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat
4. Dr. Nitin Gupta, JNIT, Jaipur, Rajasthan
5. Dr. Sanjay L. Badjate, Principal, S.B. Jain Institute of Technology Management & Research Nagpur
6. Dr. Lalit Kumar, NIT, Raipur, Chhattisgarh
7. Dr. Paresh J. Shah, SSBT's College of Engineering and Technology, Jalgaon
8. Dr. Prashant V. Thakre, SSBT's College of Engineering and Technology, Jalgaon

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**PHASE II**

23rd to 28th November 2020



**DAY 1**  
INAUGURATION  
BY DR. RAKESH SAXENA

DIGITIZATION OF ELECTRICAL SYSTEM AND SCOPE FOR TESTING AND CONSULTANCY  
BY DR. RAKESH SAXENA

**DAY 2**  
HARMONICS: PROBLEMS AND SOLUTIONS  
BY DR. NITIN GUPTA

**DAY 3**  
ROLE OF ELECTRIC VEHICLE IN SMART GRID  
BY DR. MUKESH SINGH

**DAY 4**  
POWER ELECTRONICS CONVERTER AND ITS CONTROL FOR ELECTRIC VEHICLES  
BY DR. LALTIKUMAR SAHU

**DAY 5**  
FIELD ORIENTED CONTROL OF PERMANENT MAGNET SYNCHRONOUS MOTOR (PMSM)  
BY DR. M. A. MULLA

**DAY 6**  
POWER QUALITY IMPROVEMENT OF POWER SUPPLIES USING FPGA  
BY DR. P. J. SHAH


VALEDICTORY FUNCTION  
BY DR. S. L. BADJATE

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**PHASE 2 / DAY 1**

**DR. RAKESH KUMAR SAXENA**  
PH.D.

Director  
Shri G. S. Institute of Technology & Science, Indore  
Specialization in Power Electronics, Power Quality



**TOPIC DELIVERED AT STTP:**  
**DIGITIZATION OF ELECTRICAL SYSTEM AND SCOPE FOR TESTING AND CONSULTANCY**

**ABSTRACT:**  
As all aspects of the global energy system become more digital, we are already seeing better outcomes for electricity producers, end consumers, the economy, and the environment. The digital transformation of utilities can improve the efficiency of power generation and the transmission and distribution of electricity, all while providing consumers with more capabilities and choices around their energy use. All of this accelerates de-carbonization because less fuel is needed to produce the same amount of power. Digital tools also enhance operation throughout the electricity value network. This increases grid reliability and security and reduces the cost to generate, transmit, and deliver electricity

**OUTCOME:**  
This increases grid reliability and security, and reduces the cost to generate, transmit, and deliver electricity. It helps physical systems to be more productive and autonomous. Our energy infrastructure is getting smarter and the main beneficiaries are people and the planet.

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**PHASE 2 / DAY 2**

**DR. NITIN GUPTA**  
PH.D.

Assistant Professor  
Malaviya National Institute of Technology Jaipur  
Specialization in Power Electronics, Active Power Filter, Grid Integration of Renewable Energy Sources



**TOPIC DELIVERED AT STTP:**  
**HARMONICS: PROBLEMS AND SOLUTIONS**

**ABSTRACT:**  
The current focus is on the power electronics used in industrial drives applications, tractions, HVDC links, FACTS, compensators for PQ improvements, Power supplies, and renewable energy (RE) applications. In RE systems especially wind and photovoltaic (PV) applications are on a swing during the last few years. There was a road development in the field of power electronics/power electronics converters which led to more efficient systems and a reduction of the cost per installed kW. Therefore, this presentation highlights the issues aroused due to the penetration of power electronic converters. More specifically, details pertaining to harmonics, its causes, and solutions are provided.

**OUTCOME:**  
The presentation has served as one-stop information for the participants regarding the application of power electronics-based discrete switching loads; its causes on the normal system operation and possible solutions to filter out the harmonics.

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## PHASE 2 / DAY 3

### DR. MUKESH SINGH P.H.D.

Associate Professor  
Thapar Institute of Engineering and Technology,  
Patiala.  
Specialization in Smart Grid, Vehicle-to-Grid,  
Renewable energy sources, Distributed  
generations



#### TOPIC DELIVERED AT STTP:

#### ROLE OF ELECTRIC VEHICLE IN SMART GRID

#### ABSTRACT:

Electric vehicles (EV) are considered to be the future of transportation, as environmental issues become more prominent in the world. EVs have rechargeable batteries that are the heart of EVs to store the electrical energy to commute. In the future, the significant increase in the growth of EVs will equally raise the stress on the electric grid. Therefore, to resolve the problem Vehicle-to-Grid (V2G) concept comes into the picture. The V2G technology allows the EV to operate in two distinct modes that are charging and discharging. On the one side, EVs charge through the grid and used as transportation media. Whereas, on the other side, it acts as an energy source to feed the energy back to the grid during peak-demanding hours. This not only benefits the grid by reducing its stress but also the EV owners by generating revenues. However, V2G is in its nascent stage and involves a lot of research in the area.

#### OUTCOME:

- Highlighted the need of V2G technology in the society.
- Elements involved in V2G establishment.
- Current mstate of V2G in different countries.
- Scope of research in the V2G area.

## PHASE 2 / DAY 4

### DR. LALIT KUMAR SAHU P.H.D.

Assistant Professor  
National Institute of Technology, Raipur,  
Chhattisgarh  
Specialization in Power Electronics Converters,  
Electric Vehicles and Renewable Energy  
Systems



#### TOPIC DELIVERED AT STTP:

#### POWER ELECTRONICS CONVERTER AND ITS CONTROL FOR ELECTRIC VEHICLES

#### ABSTRACT:

In recent decades, factors such as the worldwide growing concern for pollution-induced climate changes, increasingly stringent emission norms for vehicles, and depleting petroleum resources coupled with volatility in the prices have motivated and accelerated the development of sustainable and clean alternatives for transportation systems. Electrification of vehicular technology(EVT) is considered a promising and sustainable alternative for future transportation systems. In the evolution of EVT, instability of fuel price, fuel economy, range, performance, and costs are the governing factors and prime concerns for researchers, auto manufacturers, and customers. These factors are decided by the design of the electric propulsion system (EPS) and its control for vehicular application and its suitable integration with various electrical and mechanical components. In this talk a comparative overview of EVT along with a comprehensive analysis of EPS and its constituents specifically the role and importance of the power electronics converter and its control has been discussed. Also, a brief discussion on power flow control and management algorithms for EVT is presented. The talk also highlights the ongoing technological advancements and future challenges in the roadmap of EPS and power electronics and its control for the electrification of vehicular technology.

#### OUTCOME:

in terms of creating awareness among recent trends and advancements of Electric and Hybrid Electric Vehicles and the role of power electronics converter in the sustainable development of the EVT. The participants of this STTP have also benefited from the knowledge of start-ups and entrepreneurial opportunities in this field. This talk has also helped to update the participants about the state-of-the-art technologies and innovations in the field of vehicular electrifications.

## PHASE 2 / DAY 5

### DR. M. A. MULLA P.H. D.

Associate Professor  
Sardar Vallabhbhai National Institute of  
Technology, Surat, Gujarat  
Specialization in Power Electronics, Renewable  
Energy, Power Quality and Electrical Drives



#### TOPIC DELIVERED AT STTP:

#### FIELD ORIENTED CONTROL OF PERMANENT MAGNET SYNCHRONOUS MOTOR

#### ABSTRACT:

Permanent Magnet Synchronous Motor is finding wide applications in Electrical Car, Water Pumping Systems and Home Appliances. This lecture aims to discuss the development of field-oriented control of PMSM. The required components like shaft encoder, hall current sensors, and STM32F407 microcontroller are elaborated. The complete development of Field Oriented Control of 1 HP PMSM along with its demonstration is presented.

#### OUTCOME:

- Importance of the Electrical Drives and Different Electrical Motors
- Permanent Magnet Synchronous Motors (PMSM)
- Development of Scalar Control of PMSM
- Working of Shaft Encoder
- Clarke and Park Transformations
- Field Oriented Control of PMSM

## PHASE 2 / DAY 6

### DR. PARESH J. SHAH P.H.D.

Professor  
SSBT's College of Engineering & Technology,  
Jalgaon, Maharashtra  
Specialization in Power Electronics, Power  
Quality, VLSI Design



#### TOPIC DELIVERED AT STTP:

#### POWER QUALITY IMPROVEMENT OF POWER SUPPLIES USING FPGA

#### ABSTRACT:

Power quality refers to the ability of electrical equipment to consume the energy being supplied to it. A number of power quality issues including electrical harmonics, poor power factor, voltage instability, and imbalance impact the efficiency of electrical equipment. Power supplies: the controller implements different control strategies: output current demand, efficiency as high as possible. Control is traditionally achieved through analog means, but it more complex, power management is difficult, demanding functionalities that are hardly attainable in analog controllers. With the help of these studies, the power quality problems can be reduced, thereby improving the performance by using several power quality improvements and filtering techniques using digital controller in power supplies.

#### OUTCOME:

- With the digital controller, it is possible to design a stable, efficient, and rugged converter with a faster transient response for dynamically switching loads.
- THD, PF, and DPF have been reduced for power supply, etc.
- Control approaches with minimum hardware resources and reduced complexity had been made using the FPGA module for the PWM generator.
- The power quality of the converters has been improved, reduction in the size of overall power supplies, improvement in efficiency, lower cost, enhanced reliability, robustness, lightweight, flexibility and portability.

## PHASE 2 / DAY 6

### DR. SANJAY L. BADJATE PH. D.



Principal  
S.B. Jain Institute of Technology Management &  
Research, Nagpur, Maharashtra  
Specialization in Complex  
Nonlinear Modeling, Neural Network

#### TOPIC DELIVERED AT STTP:

### SCOPE AND APPLICATIONS ON DIGITALLY CONTROLLED POWER CONVERTERS FOR INDUSTRIAL AND RENEWABLE ENERGY

#### ABSTRACT:

According to an article by ABB, about 40% of the world's power needs are met by electrical energy. That number is quickly rising as the trend towards renewable energy sources has increased. Without power electronics, this energy cannot be harnessed and delivered efficiently and energy from renewable sources, such as solar and wind, could not be fed into the electricity grid. Power electronics allow solar energy to be used by converting the Direct Current energy produced by solar panels into AC, used in the commercial electrical grid. Power electronics is not only used to deliver and control power in the electric grid, but it is also used in numerous everyday devices. Everywhere right from power steering in cars, battery chargers, cell phones, and microwaves utilize power electronics. It is rightly said without power electronics it is difficult to control Electrical or Electronics devices.

#### OUTCOME:

- Learners know about the importance of digitally controlled power converters.
- Scope in the research in the area of digitally controlled power converters for Industrial and Renewable Energy.

## PHASE 2 / DAY 1-5

### PRACTICAL SESSIONS AT STTP: DEVELOPMENT OF ELECTRICAL DRIVES BY NATIONAL INFOTECH, SURAT

#### LABORATORIES:

DAY 1: Exploring WAIJUNG block set with Matlab  
DAY 2: Open-loop Scalar Control of Induction Motor with SPWM and SVM  
DAY 3: Closed-loop Control of Induction Motor  
DAY 4: Vector and Direct Torque Control of Induction Motor  
DAY 5: Control of Electronically Commuted DC

#### ABSTRACT:

This course aims to teach participants hands-on based learning of the development of Electrical Drives. The development of power electronics converters involves, designing logic circuits, driver circuits, and power circuits. Good knowledge of AC, DC power conversion is essential. This course aims to teach participants the overall design of Electrical Drives. The development of electrical drive and topics like Open Loop/Closed Loop Scalar Control of Induction Motor, Vector and Direct Torque Control of Induction Motor and Control of Electronically commuted DC Motor has been taught using ARM Cortex M4 32-bit microcontroller.

#### OUTCOME:

- Basics of Electrical Drives
- Open Loop and Closed Loop Scalar Control of Induction Motor
- Vector and Direct Torque Control of Induction Motor
- Control of Electronically Commuted DC Motor with ARM Cortex M4 32-bit microcontroller

## PHASE - III

### Shrama Sadhana Bombay Trust's COLLEGE OF ENGINEERING AND TECHNOLOGY BAMBHORI, JALGAON

PHASE-III: 14TH TO 19TH DECEMBER 2020

### ONE WEEK ONLINE SHORT TERM TRAINING PROGRAM ON DIGITALLY CONTROLLED POWER CONVERTERS FOR INDUSTRIAL AND RENEWABLE APPLICATIONS UNDER AQIS SCHEME

#### INTRODUCTION

Every system and machine universally depends on power electronics for the ability to run efficiently and sustainably. Power electronics is the application of solid-state electronics for the control and conversion of electric power. It applies to both the systems and products involved in converting and controlling the flow of electrical energy, allowing the electricity needed for everyday products to be delivered with maximum efficiency in the smallest and lightest package.

#### COURSE OBJECTIVES

The main objective of this STTP is to update participants about the use of advanced power electronic systems in various applications. Power Electronics plays important role in achieving energy efficiency and a sustainable environment. The STTP aims to address key issues such as designing, modeling, implementation, analysis, and study of associated power electronic controllers for monitoring and protection of various appliances for industrial use. This workshop is intended to provide practical exposure to research scholars, faculty members, and industry personnel. Resource persons will be faculties from NITS, Industry Persons, and In house faculties.

#### COURSE CONTENTS

1. Fundamentals of Power Electronics
2. Power Electronic Converters and Inverters
3. Control Strategies for Choppers Applications
4. Role of Power Electronics in Solar and Industrial Applications
5. Experimentation on PV Solar Applications
6. Real-time tracing of Solar PV curve and its characteristics
7. Implementation of MPPT algorithm of Solar PV
8. Grid synchronization using PLL/FLL
9. Implementation of PV-Inverter and PV-STATCOM

#### EMINENT SPEAKERS

1. Dr. Chetan Singh Solanki, Indian Institute of Technology, Bombay
2. Dr. Ragavan Kanagaraj, Indian Institute of Technology, Gandhinagar
3. Dr. Mahimadrasraf A. Mulla, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat
4. Dr. A. K. Panchal, Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat
5. Dr. Paresht J. Shah, SSBT's College of Engineering and Technology, Jalgaon, Maharashtra
6. Dr. Prashant V. Thakre, SSBT's College of Engineering and Technology, Jalgaon, Maharashtra
7. Mr. M. M. Ansari, SSBT's College of Engineering and Technology, Jalgaon, Maharashtra.

## PHASE III

14th to 19th December 2020

#### DAY 1

INAUGURATION  
BY DR. CHETAN SINGH SOLANKI

ENERGY SWARAJ: ESSENCE OF  
SUSTAINABILITY  
BY DR. CHETAN SINGH SOLANKI

#### DAY 2

GRID CONNECTED WIND ENERGY  
CONVERSION SYSTEM  
BY DR. RAGAVAN KANAGARAJ

#### DAY 3

DIGITALLY CONTROLLED CONVERTER SYSTEM  
FOR PHOTOVOLTAIC APPLICATIONS  
BY DR. P. V. THAKRE

#### DAY 4

DESIGN & DEVELOPMENT OF VSC-BASED FACT  
CONTROLLER  
BY DR. M. A. MULLA

#### DAY 5

ANALYSIS OF POWER ELECTRONIC  
CONVERTERS FOR PHOTOVOLTAIC SYSTEMS  
BY DR. P. J. SHAH

ON GRID PV SOLAR ROOFTOP POWER PLANT  
INSTALLATION AND ASSESSMENT  
BY MR. M. M. ANSARI

#### DAY 6

SOLAR PHOTOVOLTAIC'S FUNDAMENTALS  
AND APPLICATIONS  
BY DR. A. K. PANCHAL

VALEDICTORY FUNCTION  
BY DR. A. K. PANCHAL



## PHASE 3 / DAY 1

### DR. CHETAN SINGH SOLANKI P.H.D.

Professor  
Indian Institute of Technology Bombay &  
Founder, Energy Swaraj Foundation  
Specialization in Solar Photovoltaics



#### TOPIC DELIVERED AT STTP:

#### ENERGY SWARAJ: ESSENCE OF SUSTAINABILITY

#### ABSTRACT:

Energy is everything and everything is energy. Energy is also the major contributor to carbon emissions and therefore, consequential climate change. In the last 20-30 years, we have seen a steep rise in carbon emissions crossing over 415 ppm. Given the current trajectory of energy consumption and thereof generation, energy will become a commodity that will be accessible only to the rich and the poor who have been categorically denied access to it for centuries will be compelled to live in the darkness forever. To ensure access to energy is sustainable for future generations, the current energy patterns need to be relooked. Albeit, the solution lies in going to the basics and bringing in a discipline in the current lifestyle. The cue to curb the energy over-exploitation lies in the Gandhian philosophy of Gram Swaraj, and based on this, the idea of Energy Swaraj is conceptualized. Under Energy Swaraj, the communities or the locals not only consume and generate their own energy needs but also helps in generating technology-based livelihoods, a robust rural economy, empowering the local communities, etc. In this perspective, Energy Swaraj is just not generating and consuming energy using renewable sources. It is new sustainability and the economic model enters around energy. Policymakers and politicians around the world can ignore it and suffer or accept it and flourish.

#### OUTCOME:

- The urgency to act against climate change
- The relevance of Decentralized Energy Generation & Consumption
- Establishing viability of solar energy

## PHASE 3 / DAY 2

### DR. RAGAVAN KANAGARAJ P.H.D.

Associate Professor  
Indian Institute of Technology Gandhinagar,  
Gujrat  
Specialization in Electrical Machines and Power  
Electronics



#### TOPIC DELIVERED AT STTP:

#### GRID CONNECTED WIND ENERGY CONVERSION SYSTEM

#### ABSTRACT:

Energy conversion from wind to mechanical form is achieved with the aid of wind turbines. The conversion from mechanical to electrical form is through an electrical generator. Although the speed of the turbine is very low, a high-speed electrical generator is preferred. With this, size of the generator gets reduced. However, connecting a low-speed turbine to a high-speed generator requires a gear system. Induction generator is widely used in wind energy conversion system. This is mainly because of the fact that the stator windings can be directly connected to the grid. The reactive power requirement is met by the grid and the induction generator supplies active power to the grid. This doubly-fed induction generator requires a lower rating power electronic converter in the rotor side to extract or feed slip power.

#### OUTCOME:

- Understanding the operation of induction generator below and above synchronous speed.
- Understanding the need for accurate control of slip power and feeding it to the rotor circuit for sub-synchronous operation.

## PHASE 3 / DAY 3

### DR. PRASHANT V. THAKRE P.H.D.

Professor  
SSBT's College of Engineering & Technology,  
Jalgaon, Maharashtra  
Specialization in Solar Photovoltaic System



#### TOPIC DELIVERED AT STTP:

#### DESIGN, MODELING AND PERFORMANCE STUDY OF DIGITAL CONTROLLER FOR SOLAR PHOTOVOLTAIC SYSTEM

#### ABSTRACT:

In residential PV applications, if the types of loads connected to the PV inverter are uncertain then these nonlinear loads could cause intense distortion in the output current and voltage waveform. Therefore, a high-performance inverter is required to maintain the desired output voltage waveform overall loading conditions and transients. Thus to overcome the energy crises in India, low-power photovoltaic units could be implemented at each rooftop which could fulfill the household requirement. Also, an extra amount of power generated could be fed to the grid. To achieve this proper photovoltaic inverter system is to be selected with an appropriate tracking method. To make the system more flexible digital control could be used.

#### OUTCOME:

By considering the PSO technique in MATLAB/Simulink model the PWM signals were improved based on the output voltage and current sensed by the controller. The MPPT technique was able to stabilize the DC signal for charging of battery at nearly 28 volts. The output AC voltage and current of the inverter were very close to sinusoidal. Also, the current THD value was 1.78% which is well below per IEEE standard. The hardware prototype model for 1 kilowatt was also experimented with and investigated successfully. As per the observation shown in the table for the 1-kilowatt prototype model, the crest factor (ratio of peak value to effective value) at different load values was very near to the ideal value of 1.414 which gives the perfection in sinusoidal output.

## PHASE 3 / DAY 4

### DR. M. A. MULLA P.H.D.

Associate Professor  
Sardar Vallabhbhai National Institute of  
Technology, Surat, Gujarat  
Specialization in Power Electronics, Renewable  
Energy, Power Quality and Electrical Drives



#### TOPIC DELIVERED AT STTP:

#### DESIGN & DEVELOPMENT OF VSC-BASED FACT CONTROLLER

#### ABSTRACT:

VSC-based FACT Controller is finding wide application in present-day power system. Shunt, series, and shunt-series (combined) controllers are explored. This lecture aims to explain to the delegates the design and development of 1 kVA laboratory prototype of the VSC-based FACT Controller. Design of power circuit components along with control logic implementation in ARM Cortex-M4 32-bit microcontroller is explained to the delegates.

#### OUTCOME:

- The significance of power quality and present-day power systems are discussed.
- Effect of Displacement Power Factor (DPF) and its mitigation are elaborated.
- VSC-based FACTS controller for DPF: Series, Shunt, Combined are discussed.
- A laboratory prototype to study the VSC-based FACTS controller is presented.

## PHASE 3 / DAY 5

### DR. PARESH J. SHAH P.H.D.

Professor  
SSBT's College of Engineering & Technology,  
Jalgaon, Maharashtra  
Specialization in Power Electronics, Power  
Quality, VLSI Design



#### TOPIC DELIVERED AT STTP:

#### ANALYSIS OF POWER ELECTRONIC CONVERTERS FOR PHOTOVOLTAIC SYSTEMS

##### ABSTRACT:

Power Electronic Converters for Solar Photovoltaic Systems provides design and implementation procedures for power electronic converters and advanced controllers to improve standalone and grid environment solar photovoltaic's performance. Renewable energy often referred to as clean energy, comes from natural sources or processes that are constantly replenished. There are many benefits to using renewable energy resources, it is a critical part of reducing global carbon emissions and the pace of investment has greatly increased as the cost of technologies falls and efficiency continues to rise. Power electronic converters play the important role of making electrical energy from the solar panel or wind turbine and convert it to required applications.

##### OUTCOME:

- Performance and improvement of solar photovoltaics under various conditions with the aid of intelligent controllers.
- With algorithm development and real-time implementation procedures, for those interested in power electronics for performance improvement in distributed energy resources
- Design of advanced controllers, and measurement of critical parameters surrounding renewable energy systems.
- The complete solution for performance improvement in solar PV with novel control techniques, in power electronic converters, renewable energy, and power quality.

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## PHASE 3 / DAY 5

### MR. M MUJTAHID ANSARI M.E.

Assistant Professor  
SSBT's College of Engineering & Technology,  
Jalgaon, Maharashtra  
Specialization in Power System



#### TOPIC DELIVERED AT STTP:

#### ON GRID PV SOLAR INSTALLATION AND ASSESSMENT

##### ABSTRACT:

As the demand for solar electric systems grows, progressive builders are adding solar photovoltaic (PV) as an option for their customers. This overview of solar photovoltaic systems will give the builder a basic understanding of Evaluating a building site for its solar potential, Common grid-connected PV system configurations and components, Considerations in selecting components, Considerations in design and installation of a PV system, Typical costs, and the labor required to install a PV system, Building and electric code requirements and Where to find more information Emphasis will be placed on information that will be useful in including a grid-connected PV system in a bid for a residential or small commercial building. We will also cover those details of the technology and installation that may be helpful in selecting subcontractors to perform the work, working with a designer, and directing work as it proceeds. A summary of system types and components is given so the builder will know what to expect to see in a design submitted by a subcontractor or PV designer. Solar modules are usually mounted on roofs. If roof area is not available, PV modules can be pole-mounted, ground-mounted, wall-mounted or installed as part of a shade structure

##### OUTCOME:

- Able to understand legal procedure and permission for connecting On-grid PV Solar Plant.
- Able to understand the specification of PV module and selection as per the geographical condition.
- Design of PV string for best suitable for Inverters and its MPPT.
- Able to understand state electricity billing and the impact of the solar plants.
- Able to understand the technical performance of solar plants and financial analysis.

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## PHASE 3 / DAY 6

### DR. ASHISH K. PANCHAL P.H.D. (IIT BOMBAY)

Professor  
Sardar Vallabhbhai National Institute of  
Technology, Surat, Gujarat  
Specialization in Electrical Engineering and  
Solar Photovoltaics



#### TOPIC DELIVERED AT STTP:

#### SOLAR PHOTOVOLTAIC'S FUNDAMENTALS AND APPLICATIONS

##### ABSTRACT:

India has progressed much in the sector of renewable electricity generation and the generation contributes to nearly 20% of its share in the total generation. Wind and solar energy conversions are the major of them. For inculcating these technologies, a huge number of manpower is required from the R&D level to the technician level. As a part of that, the aforementioned STTP was conducted in which my contribution was towards the solar photovoltaic technologies. The session was started with the basics of the photovoltaic physical phenomena. The photovoltaic cell and PV module structures were introduced. The output, characteristics of these devices were discussed in the standard test conditions and how do their behavior change with environmental factors such as solar intensity and temperature. When the solar PV panels are connected to the loads, the interfacing electrical converters and their control were detailed. Then lastly, the solar PV applications were discussed. In the next session, a typical residential load was considered and its complete PV design was discussed step by step. Along with that, some economic aspects were also discussed.

##### OUTCOME:

- Learn and explain solar PV technologies.
- Learn and explain the behavior of the PV modules.
- Learn and understand the solar PV electrical system and its control.
- Understand the PV system design.
- Design a basic domestic PV system.
- Understand the PV economics.

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## PHASE 3 / DAY 1-5

#### PRACTICAL SESSIONS AT STTP: RENEWABLE ENERGY DEVELOPMENT BY NATIONAL INFOTECH, SURAT

##### LABORATORIES:

DAY 1: Exploring WAIJUNG blockset with Matlab  
DAY 2: Implementation of MPPT algorithm of Solar PV  
DAY 3: Grid synchronization using PLL/FLL  
DAY 4: Implementation of PV-Inverter  
DAY 5: Implementation of PV-STATCOM

##### ABSTRACT:

This course aims to teach participants hands-on based learning of the development of Electrical Drives. The development of power electronics converters involves designing logic circuits, driver circuits, and power circuits. Good knowledge of AC, DC power conversion is essential. This course aims to teach participants the overall design of Electrical Drives. The development of renewable energy application aspects like MPPT algorithm of Solar PV, Grid synchronization using PLL/FLL, implementation of PV- Inverter and PV-STATCOM has been taught using ARM Cortex M4 32-bit microcontroller.

##### OUTCOME:

- Basics of Renewable Energy Development using Power Electronics Converter
- MPPT algorithm of Solar PV
- Grid synchronization using PLL/FLL
- Implementation of PV- Inverter, and PV-STATCOM

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# FEEDBACK

At the end of each STTP online test was conducted based on the sessions delivered. The participants took active participation and the certificates were issued to those participants having test score above 80%. Online feedbacks from the participants were also collected by steering committee. The few feedback of received from participants are as follows,

- The renowned recourse persons were speak on recent topics and it will be helpful in research work.
- Quality of the program was very excellent.
- The practical sessions for each STTP was conducted by M/s National Infotech, Surat, Gujarat and it was very well appreciated by the participants.
- Practical sessions will helpful to teach the students and helpful for their projects.
- After identifying the today's need, very well aware about how to implement learning in teaching work so whenever required we will implement it.
- All knowledge and concept which is gained that will be forwarded to the students.
- Exploring more about Artificial intelligence, neural network will help in future work, it will implement in academic activities.
- Knowledgeable information and relevant to subject useful for career also.

# OUTCOME

After completion of program, faculty members, industry persons and research scholars will get knowledge about the use of advanced power electronic systems in industrial and renewable applications. They learned designing, modelling, implementation, analysis and study of associated power electronic controllers for monitoring and protection of various appliances for industrial use.

- Exposure to developing laboratories for experimentation work for UG/PG students.
- Scope in the research in the area of digitally controlled power converters for Industrial and Renewable Energy.
- Most promising applications are those where classical control solutions cannot provide satisfactory performance, typically when the model of the plant is not available or highly non-linear, or when the system is subject to significant parameter variation.
- Developed a basic understanding of solar photovoltaic supply systems for the grid and standalone operation.
- Technical exposure on design and development of solar PV supply system.
- Understand analysis of basic power electronics converters, and design switched-mode regulators for various industrial applications.
- Comprehend the concepts of different power converters and their applications
- Modelling, simulation, and design of Model Reference Adaptive Systems for Induction motor drivers.
- It helps physical systems to be more productive and autonomous.
- The application of fuzzy logic to power electronics and drives will continue to flourish in the near future.

# MEDIA COVERAGE



THANK YOU !!

PROJECT MANAGEMENT/STEERING AND ORGANIZING COMMITTEE OF AICTE SPONSORED ONLINE SHORT TERM TRAINING PROGRAM DIGITALLY CONTROLLED POWER CONVERTERS FOR INDUSTRIAL & RENEWABLE APPLICATIONS UNDER AQIS SCHEME PHASE-I, II & III



SEATING FROM LEFT MR. V. S. PAWAR, DR. S. R. SURALKAR, DR. K. S. WANI, DR. S. P. SHEKHAWAT, DR. P. J. SHAH, DR. P. V. THAKRE, STANDING FROM LEFT MR. N. S. MAHAJAN, MR. SATPAL RAJPUT, MR. A. C. WANI, DR. P. H. ZOPE, MR. YOGESH PATIL.

**SSBT's College of Engineering and Technology, Jalgaon, Maharashtra**

**AICTE sponsored online Short Term Training Program on "Digitally Controlled Power Converters for Industrial and Renewable Applications" (Phase-I) under AQIS scheme from 26<sup>th</sup> to 31<sup>st</sup> October 2020.**

**List of candidates who successfully completed the program on the basis of the test conducted by PMC**

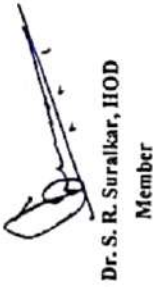
Sr. No.	Name of Participants	Designation	Institute Name	Email	Mob	% Attendance	Evaluation Test Marks out of 25	Certificate Issued
1	Poongodi. K. K	Associate Professor	Paavai Engineering College, Namakkal, Tamilnadu	poongodikandasamy@p aavai.edu.in	9487202788	90	25	Yes
2	Sivapriyan R.	Associate Professor	Sir MVIT Bangalore, Karnataka	sivapriyan@gmail.com	9945603061	85	25	Yes
3	Md Nasar Ayoob	Lecturer	Maulana Azad National Urdu University Polytechnic Kadapa Andhra Pradesh	mdnasarayooabamu@gmail.com	9528730501	90	25	Yes
4	Jitendra Jawale	Asst. Professor	Army Institute of Technology, Pune, Maharashtra	jjawale@aitpune.edu.in	99233565542	85	25	Yes
5	Dnyanada Dinkar Kolhe	Assistant Professor	Godavari Foundation's Godavari College of Engineering, Jalgaon, Maharashtra	dnyanadkolhe@gmail.com	8408008264	85	25	Yes
6	Mangala Rambhauji Dhoire	Assistant Professor	Government College of Engineering, Jalgaon, Maharashtra	mangala_dev@rediffmail.com	9421516531	85	25	Yes
7	Avijit Chakraborty	Director	Legend Solar, West Bengal	avijitcha@yahoo.co.in	9.18146E+11	85	25	Yes
8	Suhas Manohar Shembekar	Assistant Professor	SSBT'S College of Engineering and Technology Bambhori Jalgaon	smshembekar@gmail.com	9922691649	85	25	Yes
9	Dr. RAJESH B LOHANI	Professor	Goa College of Engineering, Govt. of Goa	rblohani@gec.ac.in	9145062168	85	24	Yes
10	Atul H Karode	Assistant Professor	SSBT'S College of Engineering and Technology Bambhori Jalgaon	atulkarode@gmail.com	#N/A	85	24	Yes
11	Susovan Praumanik	Junior Research Fellow	Kalyani Government Engineering College, West Bengal	suso.suva@gmail.com	8348813370	85	24	Yes
12	Archak Sadhukhan	JRF	Kalyani Government Engineering College, West Bengal	archakskn@gmail.com	7278694572	85	24	Yes
13	Vijay Bhagawan Nerkar	#N/A	D.N.Patel College of Engineering, Shahada	vijay.nerkar@gmail.com	#N/A	85	24	Yes
14	Jayashree Hirralal Patil	Assistant Professor	P.S.G.V.P. Mandal's D.N.Patel College of Engineering, Shahada	jhp4@rediffmail.com	9420852606	85	24	Yes
15	Mohsin Salim Gangat	Assistant Professor	JIEMS, Akalkuwa	mohsingangat@gmail.com	9376639338	85	24	Yes
16	Yugal Kishor	Research Scholar	National Institute of Technology, Raipur	yugalsahu87@gmail.com	8103095114	85	23	Yes
17	Mr. Vijay S.Pawar	Associate Professor	SSBT'S College Of Engineering and Technology Bambhori Jalgaon	vspawar1971@gmail.com		85	23	Yes
18	Karra. Vijaykumar	Asst. Prof	Army Institute of Technology, Pune, Maharashtra	karra.vijay@gmail.com		85	23	Yes
19	Amol Chandrakant Wani	Assistant Professor	SSBT's College of Engineering & Technology Bambhori, Jalgaon	waniac7095@gmail.com	9850082361	85	22	Yes
20	Kalpesh Madhav Mahajan	Assistant Professor	KCES's College of Engineering & Management, Jalgaon	kalpmahajan@gmail.com	9860985400	85	22	Yes
21	Dr. S. R. Suralkar	Professor	SSBT's College of Engineering and Technology, Bambhori, Jalgaon	shekhar_srs@rediffmail.com	#N/A	85	22	Yes
22	Amit Suhas Borole	Asst professor	SSBT's College of Engineering and Technology, Bambhori, Jalgaon	amit2010borole@gmail.com	8600273686	85	22	Yes

23	Prakash C	Assistant Professor	JCT COLLEGE OF ENGINEERING AND TECHNOLOGY,	prakashvijju@gmail.com	7010120569	85	22	Yes
24	Krushil Manohar Punwatkar	#N/A	Babasaheb Naik College of Engineering, Pusad	krushilpunwatkar1975@gmail.com	#N/A	85	22	Yes
25	M.Devika Rani	Assistant Professor	Prasad V Potluri Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh	devikamolhukuri@gmail.com	9000218909	85	21	Yes
26	Uma Maheswari.G	Assistant Professor	Paavai Engineering College, Namakkal, Tamilnadu	jeevau451@gmail.com	9443513801	85	20	Yes
27	Dr Mukund Govind Wani	Professor	JSPM's Imperial College of Engineering & Research, Wagholi, Pune	mgwanisir@gmail.com	9.19226E+11	85	20	Yes
28	S.Anusha	Assistant Professor	JNTUA College of Engineering, Anantapur	sankranthi.anusha2425@gmail.com	9160542333	85	19	Yes
29	Vaishnavi Sumil Navale	Assistant Professor	AISSMS COLLEGE OF ENGINEERING, Pune, Maharashtra	vsnavale@aiissmscoe.com	9881097035	85	19	Yes
30	P Sujji Garland	Assistant professor	St.Xavier's Catholic College of Engineering, Nagercoil	suji@sxccc.edu.in	9442160882	90	19	Yes
31	Ganesh Gulabrao Bhadane	Assistant professor	D N PATEL COLLEGE OF ENGINEERING, SHAHADA	ganeshbhadane88@gmail.com	9922720133	85	18	Yes
32	Dnyaneshwar M. Gaikwad	Assistant Professor	Government College of Engineering, Jalgaon	dnyangcoej@gmail.com	8087016583	85	18	Yes
33	Sanjay Purushottam Patil	Assistant Professor	D.N.PATEL College of Engineering,Shahada	sanjaypatil2711@gmail.com	9850249158	85	18	Yes
34	Shubhangi Tayade	#N/A	GF's Godavari College of Engineering, Jalgaon	nitushree24@gmail.com	#N/A	85	18	Yes
35	Dr. Pankaj Zope	Assistant Professor	SSBT's College of Engineering and Technology, Bambhori, Jalgaon	pkzope@gmail.com	9860631040	85	17	Yes
36	Manish Chavan	Visiting Faculty	Government College of Engineering, Jalgaon	manishchavan4@gmail.com	7276505977	85	17	Yes
37	M Mujtahid Ansari	Assistant Professor	SSBT's College of Engineering and Technology Bambhori Jalgaon	mujtahidansari@gmail.com	9422864760	85	17	Yes
38	Vinodkumar P. Patil	Assistant Professor	NES's Gangamai College of Engineering Nagaon	vinod.patil293@gmail.com	9975775704	85	17	Yes
39	Momin Shahbaz Akhter Riyaz Ahmed	Assistant Professor	Maulana Mukhtar Ahmad Nadvi Technical Campus, Malegaon	mominshahbazm@gmail.com	8237153533	85	17	Yes
40	Kirti Gupta	#N/A	Indian Institute of Technology, Delhi	k.gupta15312@gmail.com	#N/A	85	17	Yes
41	Wawal Somiya	Assistant Professor	Gangamai College of Engineering, Nagaon,Dhule	chandrakironji@gmail.com	8766763528	85	16	Yes
42	Anul Gandhi	Research Scholar	SANGAM UNIVERSITY, BHILWARA, Rajasthan	atulgandhi1987@gmail.com	9462241388	85	16	Yes
43	Rupesh Shantaram Patil	Assistant Professor	R C Patel Institute of Technology Shirpur	patil.rupesh.rupesh@gmail.com	8600608806	85	18	Yes
44	M.Shirisha	#N/A	JNTUA College of Engineering, Anantapur	shirishamesa1031@gmail.com	#N/A	85	24	Yes
45	Dr. Rajendra M. Revatkar	Associate Professor	Datta Meghe Institute of Engineering, Technology and Research Sawangi, Wardha	rajendra.revatkar@gmail.com	9923399409	85	18	Yes
46	PRIYA R	Associate Professor	Miankula Vinayagar Institute of Technology, Kalitheerthalkuppam, Puducherry	priyar@gmail.com	9994132524	85	17	Yes
47	W VINILDANI	#N/A	St.Xavier's Catholic College of Engineering, Nagercoil, Tamilnadu	vinildani@gmail.com	#N/A	88	18	Yes

48	Nilesh Suresh Mahajan	Assistant Professor	SSBT's College of Engineering and Technology Bambhori Jalgaon	nilesh_mahajan17@rediffmail.com	9975002581	85	18	Yes
49	Dhanesh Subhash Patil	Assistant Professor	SSBT's College of Engineering and Technology Bambhori Jalgaon	dsapati237@gmail.com	9823472068	90	17	Yes
50	Satpal Rajput	Assistant Professor	SSBT's College of Engineering and Technology Bambhori Jalgaon	rajputsatpal@gmail.com	7588100300	90	18	Yes

  
Dr. P. V. Thakre, Expert  
Member

  
Mr. V. S. Fawar, HOD  
Member

  
Dr. S. R. Suralkar, HOD  
Member

  
Dr. P. J. Shah, Coordinator  
Member Secretary

  
Dr. K. S. Wani, Principal  
Chairperson

**Project Monitoring Committee**

**PRINCIPAL**  
SSBT's College of Engineering & Technology  
Bambhori, Jalgaon-425001 (M.S.)

**SSBT's College of Engineering and Technology, Jalgaon, Maharashtra**  
**AICTE sponsored online Short Term Training Program on "Digitally Controlled Power Converters for Industrial and Renewable Applications" (Phase-II) under AQIS**  
**scheme from 23rd to 28th November 2020.**


*List of candidates who successfully completed the program on the basis of the test conducted by PMC*

Sr. No.	Name of Participants	Designation	Institute Name	Email	Mob	% Attendance	Evaluation Test Mark/ out of 20	Certificate Issued
1	Dr. RAJESH B LOHANI	Professor	Goa college of engineering Ponda Goa	rblohani@get.ac.in	9145062168	90	20	Yes
2	Dr Shamim Ahmad Khan	Assistant Professor	Shibi National College Azamgarh	shamim002@gmail.com	7007921129	85	20	Yes
3	ASHFAQ HUSSAIN	#N/A	RAJASTHAN TECHNICAL UNIVERSITY, KOTA	ashfaqhussain691@gmail.com	#N/A	90	20	Yes
4	Dr. Vilas Shamrao Bugade	Associate Professor	Dr. D. Y. Patil Institute of Technology, Pimpri, Pune 411018	vilas.bugade12@ypp.edu.in	9922841809	85	20	Yes
5	Atul H Karode	Assistant Professor	SSBTS College of Engineering and Technology Bambhori Jalgaon Maharashtra	atulkarode@gmail.com	9850087247	85	20	Yes
6	C.H.KAMESH RAO	Research Scholar	NIT RAIPUR	kameshrao02@gmail.com	9.17898E+11	85	20	Yes
7	Subas Manohar Shembekar	Assistant Professor	SSBTS College of Engineering and Technology Bambhori Jalgaon Maharashtra state	smshembekar@gmail.com	9922691649	85	19	Yes
8	YUGAL KISHOR	Research Scholar	National Institute of Technology, Raipur, Chhattisgarh	yugalsahu87@gmail.com	8103095114	85	18	Yes
9	Chitra Bhattacharya	Asst. Prof.	Shri Govindram Seksaria Institute of Technology and Science, Indore	chitrabhattacharya0@gmail.com	9425458190	85	18	Yes
10	Mohd Ashfaque Tajj Mohd	Assistant Prof.	Gangamai college of Engineering, Nagaon, Dhule	mdshfaque07@gmail.com	9595922220	85	17	Yes
11	Mr. V.S.Pavar	Assistant Professor	SSBTS College of Engineering and Technology Bambhori Jalgaon Maharashtra state	vspavar1971@gmail.com	9421637700	85	16	Yes
12	Susovan Pramanik	Junior Research Fellow	Kalyani Government Engineering College	suso.suva@gmail.com	8348813370	85	15	Yes
13	M Mujtabid Ansari	Assistant Professor	SSBTS College of Engineering & Technology Bambhori Jalgaon	mujtabidansari@gmail.com	9422864760	85	15	Yes
14	DR. AFZAL HUSSAIN	Postdoctoral Fellow	MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL MP	ahussain591@gmail.com	9893916826	85	15	Yes
15	Satyendrasing Akashsing Seragi	Assistant Professor	R.C.Patel Institute of Technology, Shirpur, Dist: Dhule, Maharashtra	satyendra.seragi@gmail.com	9881969096	85	15	Yes
16	Narvekar Pradiya Ravindra	Assistant Professor	Sanjay Ghodawat University, Kolhapur, Maharashtra	pradyanarvekar20@gmail.com	9175578196	85	15	Yes
17	Menka Havagondi	Assistant professor	Sanjay Ghodawat University, Kolhapur, Maharashtra	menkahaavagondi@gmail.com	9503485803	85	15	Yes
18	Momin Shahbaz Akhter Riyaz Ahmed	Assistant Professor	MAULANA MUKHTAR AHMAD NADVI TECHNICAL CAMPUS	mominshahbazm@gmail.com	8237153533	85	15	Yes
19	Tanveer Husain Shaikh Ferroz	Assistant Professor	Aijumaaan-Islam's Kalsekar Technical Campus New Panvel Navi Mumbai	tanveerhusain.khatik@aikt.ac.in	7218111664	85	15	Yes
20	Mrs. S. M. Badave	Professor	Marathwada Institute of Technology, Aurangabad Maharashtra	smb.eed@gmail.com	9890973068	85	14	Yes
21	Mahesh H Patil	Assistant Professor	IRT POLYTECHNIC COLLEGE, BARGUR, KRISHNAGIRI, TAMIL NADU	mhpatis1@gmail.com	9960588533	85	14	Yes
22	M.MANICKAM	Lecturer	SKIT, Jalpur	manikampremal6@gmail.com	8667384998	85	13	Yes
23	Jitendra Singh	Assistant Professor	SKIT, Jalpur	jitendrasingh2389@gmail.com	9314557275	85	13	Yes
25	Manikandan Jayachandran	Engineer	Chennai	baalaji2006@gmail.com	9894853005	85	13	Yes
26	Vinothkumar P. Patil	Assistant Professor	NES's GCQE Nagaon	vinoth.patil293@gmail.com	9975775704	85	13	Yes
27	Wahhal Soniya	Assistant Professor	Gangamai College of engineering, Nagaon, Dhule	chandrakironji@gmail.com	8766763528	85	12	Yes
28	Ankush Tandon	Associate professor	SKIT Jalpur	ceankush.1986@gmail.com	7737279925	85	12	Yes
29	Prof. Sudhakar Vithalrao pawar	Assistant professor	SSVPS B S D college of Engineering Dhule	vspawar1@gmail.com	9529539929	85	12	Yes
30	Ravindra Singh Mandloi	Assistant Professor	Shri G. S. Institute of Technology & Science, Indore (M.P.)	ravindramandloi@yahoo.com	9827214103	85	14	Yes

31	Komal Kishor Ingale	Assistant professor	GF's Godavari college of engineering Jalgaon	Komalingale8@gmail.com	9665118825	90	13	Yes
32	Amol Chandrakant Wani	Assistant Professor	SSBT's College of Engineering and Technology, Bambhori, Jalgaon.	waniac7095@gmail.com	9950082361	85	13	Yes
33	Dr. Neeta Anil Nemade	Assistant professor	Shri Sant Gadge Baba College of Engineering & Technology, Bhusawal	neeta.nemade@gmail.com	9766014551	85	13	Yes
34	Subhash Vyankatrao Pandit	Assistant Professor	SSVPS'S B.S Deore College of Engineering Deopur Dhule.	panditsubhash@gmail.com	9325030688	85	13	Yes
35	Uma Maheswari G	Assistant Professor	Paavai Engineering College	jevuaa51@gmail.com	9443513801	85	12	Yes
36	Gopal Anantrao Kulkarni	#N/A	Shri Madhavrao Patil Mahavidyalaya Murum. Dist. Osmanabad, Maharashtra.	kulkarnigopal2302@gmail.com	#N/A	85	12	Yes
37	Shafiqequeerhman Shabbir	Asst. Professor	Godavari College of Engineering, Jalgaon	naac5171@gmail.com	9960875772	85	12	Yes
38	Rajendra B. Khule	Assistant Professor	K. D. K. College of Engineering, Nagpur, Maharashtra	rajendrak20472@gmail.com	9890922471	85	14	Yes
39	JENAR KUMAR SINHA	#N/A	IGMH Hyderabad Telangana	jenar.kumar@gmail.com	#N/A	85	13	Yes
40	Mohsin Salim Gangat	Assistant Professor	Jamia Institute of Engineering and Management Studies, Akalkuwa Nandurbar	mohsingangat@gmail.com	9376639338	85	13	Yes
41	AMIT NAIK	Associate professor	SGSITS INDORE MADHYA PRADESH	amitnaik12@gmail.com	9685697174	85	13	Yes
42	DEEPTI ARELA	Assistant Professor	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, Rajasthan	dceptiarelapce@gmail.com	9929417474	85	13	Yes
43	PRAKASH C	Assistant Professor	JCT College of Engineering And Technology Coimbalore Tamilnadu	prakashvaju@gmail.com	7010120569	85	12	Yes
44	Mamish Chavan	Visiting Faculty	Government College of Engineering Jalgaon Maharashtra	manishchav4@gmail.com	7276505977	85	12	Yes
45	ROHITHKUMAR P S	Lecturer	Nisarga Independent PU College, Kollegal, Chamrajnagar Dist, Karnataka State	rohithkumarps27@gmail.com	9964086564	85	12	Yes
46	Nillesh Suresh Mahajan	Assistant Professor	SSBT's College of Engineering and Technology Bambhori Jalgaon	nillesh_mahajan17@rediffmail.com	9975002581	85	14	Yes
47	Dhanesh Subhash Patil	Assistant Professor	SSBT's College of Engineering and Technology Bambhori Jalgaon	dsptil237@gmail.com	9823472068	85	13	Yes
48	Satpal Rajput	Assistant Professor	SSBT's College of Engineering and Technology Bambhori Jalgaon	rajputsatpal@gmail.com	7588100300	88	13	Yes
49	Dr. P. H. Zope	Associate Professor	SSBT's College of Engineering and Technology Bambhori Jalgaon	phzope@gmail.com	9860631040	85	13	Yes

  
Dr. P. V. Thakre, Expert  
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Mr. V. S. Fawar, HOD  
Member

  
Dr. S. R. Suralkar, HOD  
Member

  
Dr. P. J. Shah, Coordinator  
Member Secretary

  
Dr. K. S. Wani, Principal  
Chairperson

**PRINCIPAL**  
SSBT's College of Engineering & Technology  
Bambhori, Jalgaon-425001 (M.S.)

**Project Monitoring Committee**

**SSBT's College of Engineering and Technology, Jalgaon, Maharashtra**  
**AICTE sponsored online Short Term Training Program on "Digitally Controlled Power Converters for Industrial and Renewable Applications" (Phase-III) under AQIS scheme from 14th to 19th December 2020.**

*List of candidates who successfully completed the program on the basis of the test conducted by PMC*

Sr. No.	Name of Participants	Designation	Institute Name	Email	Mob	% Attendance	Evaluation Test Marks out of 20	Certificate Issued
1	Dr Rajesh B Lohani	Professor	Goa College of Engineering	rblohani@gce.ac.in	9145062168	90	19	Yes
2	Amol CHANDRAKANT WANI	Assistant Professor	SSBT's College of Engineering & Technology Bambhori Jalgaon	waniac7095@gmail.com	9850082361	85	12	Yes
3	Yugal Kishor	Research Scholar	National Institute of Technology Raipur	yugalsahu87@gmail.com	8103095114	90	16	Yes
4	RICHARD S P	Assistant Professor	K. Ramakrishnan College of Engineering, Trichy/ Tamilnadu	richard@krce.ac.in	#N/A	85	13	Yes
5	Rama Prasanna Dalai	Assistant Professor	Centurion University of Technology & Management, Bhubaneswar, Odisha	rama.dalai@cutm.ac.in	9556786645	85	13	Yes
6	Wavhal Soniya Daulatrao	Assistant Professor	Gangamai College of engineering, Nagaon, Dhule	chandrakironji@gmail.com	8766763528	85	12	Yes
7	Vandana	Assistant Professor	S.D.S.P.MEMORIAL COLLEGE FOR WOMEN, RAYYA	Vandana.nischal@yahoo.com	9465695120	85	13	Yes
8	Mr. Kuchekar Nilesh Digambar	Assistant Professor	PVG COET, 09, PARVATI, PUNE, MAHARASHTRA	nileshkuchekar9@gmail.com	9766467842	85	14	Yes
9	SK HEDAI	Assistant Professor	SEACOM ENGINEERING COLLEGE, KOLKATA, WEST BENGAL	skhedai786@gmail.com	8926787116	85	20	Yes
10	SHAIKH NAZRUL	Research Scholar	NORTH ORISSA UNIVERSITY, BARIPADA, ODISHA, INDIA	nazulshaiikh2@gmail.com	9861813678	85	16	Yes
11	Mr. Vaibhav Vikas Mainkar	Asst. Prof.	S.S.P.M's College of Engineering, Kankavli	vaibhav.mainkar26@gmail.com	9049813870	85	15	Yes
12	Tanmay Hitesh Kumar Bhatt	Assistant Professor	College of Food Processing Technology & Bio-Energy, Anand, Gujarat	bhatt.tanmayh@gmail.com	851129042	85	13	Yes
13	Prof. S V Pawar	Assistant Professor	S S V P S B S Deore College of Engineering Dhule.	svpawar1@gmail.com	9529539929	85	12	Yes
14	Dr.N.D.Chavan	Lecturer Sel,Grade	K.J.Somaiya Polytechnic Vidyavihar Mumbai 77	ndchavan@somaiya.edu	7710029444	85	20	Yes
15	Dr. Puspendu Rakshit	Assistant Professor	Jagannath Kishore College, Purulia, West Bengal	pushmath@gmail.com	9433468759	85	12	Yes
16	Dr. Tanushree Sen	Assistant Professor	Jagannath Kishore College, Purulia, West Bengal	tanushreeseni1980@gmail.com	#N/A	85	20	Yes
17	Momin Shahbaz Akhter Riyaz Ahmed	Assistant Professor	Maulana Mukhtar Ahmad Nadvi Technical Campus, Malegaon MS Bengal.	mominshahbazmlg@gmail.com	8237153533	85	16	Yes
18	SUSOVAN PRAMANIK	Junior Research Fellow	Kalyani Government Engineering College, Kalyani, Nadia, West Bengal.	suso suva@gmail.com	8348813370	85	17	Yes
19	Mohsin Salim Gangat	Assistant Professor	JIEMS, Akalkuwa	mohsingangat@gmail.com	9376639338	85	19	Yes
20	Ailul Pandey	Research Scholar	Amity University, Noida, UTTAR PRADESH	sm.atulpandey@gmail.com	8303469254	85	12	Yes
21	SUSOVAN PRAMANIK	Junior Research Fellow	Kalyani Government Engineering College West Bengal	suso suva@gmail.com	8348813370	85	16	Yes
22	Uma Maheswari.G	Assistant Professor	Paavai Engineering College Pachal, Namakkal Tamilnadu	jeevau451@gmail.com	9443513801	85	13	Yes
23	DEEPTI ARELA	Assistant Professor	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur	deeptiarelapce@gmail.com	9929417474	85	13	Yes
24	Sahas Manohar Shembekar	Assistant Professor	SSBT's College of Engineering & Technology Bambhori Jalgaon	smshembekar@gmail.com	9922691649	85	12	Yes
25	NIMAY CHANDRA GIRI	Assistant Professor	Centurion University of Technology and Management Jani, Khurda	nimay.giri@cutm.ac.in	6371211594	85	13	Yes

26	M Mujtahid Ansari	Assistant Professor	SSBT's College of Engineering and Technology, Bambhori, Jalgaon	mujtahidansari@gmail.com	9422864760	85	14	Yes
27	Nilesh Suresh Mahajan	Assistant Professor	SSBT's College of Engineering and Technology Bambhori Jalgaon	nilesh_mahajan17@rediffmail.com	9975002581	85	20	Yes
28	Dhanesh Subhash Patil	Assistant Professor	SSBT's College of Engineering and Technology Bambhori Jalgaon	dsapati2127@gmail.com	9823472068	85	16	Yes
29	Satpal Rajput	Assistant Professor	SSBT's College of Engineering and Technology Bambhori Jalgaon	rajputsatpal@gmail.com	7588100300	85	15	Yes
30	Dr. P. H. Zope	Associate Professor	SSBT's College of Engineering and Technology Bambhori Jalgaon	phzope@gmail.com	9860631040	90	13	Yes
31	Mr. ASHFAQ HUSSAIN	RESEARCH SCHOLAR	RAJASTHAN TECHNICAL UNIVERSITY, KOTA	ashfaqhussain91@gmail.com	7976405751	85	12	Yes
32	Ajay Kumar Verma	Assistant Professor	Goel Institute of Pharmacy & Sciences, Lucknow	ajaykverma66@gmail.com	6394216650	85	20	Yes
33	Mohit Shahane	Proprietor	SunPower Technologies	shahane@m@gmail.com	9372278018	85	12	Yes
34	Tanveer Husain Shaikh Feroz Khatik	Assistant Professor	Anjumani-Islam's Kaisekar Technical Campus New Panvel Navi Mumbai	tanveerhusain.khatik@aikt.ac.in	9209890752	85	20	Yes
35	Shah Faisal Shah Shakeel Ahmed	Assistant professor	MMANTC Malegaon	sfaisal034@gmail.com	9579654606	85	16	Yes
36	Satyendrasing Akashising Seragi	Assistant Professor	R.C. Patel Institute of Technology, Shirpur, Dist: Dhule, Maharashtra	satyendra.seragi@gmail.com	9881969096	85	17	Yes
38	JOHN CHEMBUKKAVU	HOD	IES COLLEGE OF ENGINEERING	johnthrisur9447808065@gmail.com	9447808065	85	19	Yes
39	Londhe Tanisha Sanjaykumar	Assistant Professor	Singhad Academy of Engg kondhwa Pune	chhayaahavale@gmail.com	955257879	85	12	Yes
41	Khatik Mohsin Abdul Munaf	Asst. Professor	SITRC	9881844006	9881844006	85	16	Yes
42	Dr. ARVIND B. KATRE	Assistant professor	S.B.K. ARTS COLLEGE, SAKOLI Dist-- BHANDARA	arvindkatre1970@gmail.com	942299791	85	13	Yes
43	Mohammad Arifur Rahman	Lecturer	Government Polytechnic Nagpur	marnagpur@gmail.com	942282926	85	13	Yes
44	Dr Ritu Sharma Singh	Medico Social Worker	Government Medical College Raigarh	drritugmc@gmail.com	7024142303	85	12	Yes
45	Dr. Renuka Sharma	Asst Professor	Dr Indrajeet Govt College Akaltara	srenu.sharma3@gmail.com	8839908225	85	13	Yes
46	Sunita	Research scholar	Ranchi university Ranchi, Jharkhand	sunita bokaro1805@gmail.com	8409113558	85	14	Yes
47	V. Gandhimathi	Assistant professor	Sri karpaga polytechnic college	svgandhi23@gmail.com	8098774569	85	20	Yes
48	Dr. Geeta Avinash Rashinkar	Assistant professor	Saraswati Mandir Night College of Commerce and Arts Pune 2	geeta.rashinkar966@gmail.com	9423039593	85	16	Yes
49	AMIT NAIK	Assistant professor	SGSITS INDORE	amitnaik12@gmail.com	968569174	88	15	Yes
50	Chandrama Kalita	Research scholar	Gauhati University, Guwahati, Jalukbari, Assam	chandrama4u@gmail.com	950838686	85	13	Yes
51	S Gejendhiran	Assistant professor	Jeppiaar Institute of Technology Chennai	geja.mechanical@gmail.com	9790311108	85	12	Yes
52	N.PRIYA DHARSHINI	Assistant professor	LATHA MATHAVAN ENGINEERING COLLEGE Tamil Nadu	priyadharshini.n30@gmail.com	9791642947	85	20	Yes

  
Dr. P. V. Thakre, Expert  
Member

  
Mr. V. S. Pawar, HOD  
Member

  
Dr. S. R. Suralkar, HOD  
Member

  
Dr. P. J. Shah, Coordinator  
Member Secretary



Dr. K. S. Wani, Principal  
Chairperson

**PRINCIPAL**  
SSBT's College of Engineering & Technology  
Bambhori, Jalgaon-425001 (M.S.)

**Project Monitoring Committee**

## **SSBT's College of Engineering & Technology, Bambhori, Jalgaon**

Date: 31-12-2020

### **Report of Steering /Project Monitoring Committee on AICTE sponsored online Short Term Training Program on "Digitally Controlled Power Converters for Industrial and Renewable Applications" under AQIS scheme (Phase-I, II, III)**

Department of Electronics & Telecommunication and Department of Electrical Engineering of Shram Sadhana Bombay Trust's College of Engineering and Technology, Jalgaon (M.S.) jointly organized 03 online Short Term Training Programs (STTP) for the faculties and research scholars from all over India. These STTP's were sanctioned by AICTE and were conducted under AQIS. The theme of STTP was 'Digitally Controlled Power Converters for Industrial and Renewable Applications' conducted in three phases (Phase I, II & III). Many renowned experts from IIT's, NIT's and other government and private colleges delivered the lectures in STTP's. Some of our internal faculties also took few sessions.

The 1<sup>st</sup> online STTP (Phase I) was organized during 26<sup>th</sup> to 31<sup>st</sup> October 2020. This STTP was inaugurated by the hands of Dr. Shailendra Jain, Director, Sant Longowal Institute of Engineering & Technology, Longowal, Punjab. The other experts who delivered lecture in this STTP were:

1. Dr. Mahmadasraf A. Mulla, Sardar Vallabhbhai National Institute of Technology, Surat
2. Dr. Shailendra Kumar Sharma, Shri G. S. Institute of Technology & Science, Indore
3. Dr. Krishna Kumar Gupta, Thapar Institute of Engineering & Technology, Patiala
4. Dr. K. B. Khanchandani, Shri Sant Gajanan Maharaj College of Engineering, Shegaon.
5. Dr. Paresh J. Shah, SSBT's College of Engineering and Technology, Jalgaon
6. Dr. Prashant V. Thakre, SSBT's College of Engineering and Technology, Jalgaon

The 2<sup>nd</sup> online STTP (Phase II) was organized during 23<sup>rd</sup> to 28<sup>th</sup> November, 2020. This STTP was inaugurated by the hands of Dr. Rakesh Kumar Saxena, Director, SGSITS, Indore, Madhya Pradesh. The other experts who delivered lecture in this STTP were:

1. Dr. Mukesh Singh, Thapar Institute of Engineering & Technology, Patiala, Punjab
2. Dr. Mahmadasraf A. Mulla, SVNIT, Surat, Gujarat
3. Dr. Nitin Gupta, MNIT, Jaipur, Rajasthan
4. Dr. Sanjay L. Badjate, Principal, S.B. Jain Institute of Technology, Management & Research, Nagpur
5. Dr. Lalit Kumar, NIT, Raipur, Chhattisgarh
6. Dr. Paresh J. Shah, SSBT's College of Engineering and Technology, Jalgaon
7. Dr. Prashant V. Thakre, SSBT's College of Engineering and Technology, Jalgaon

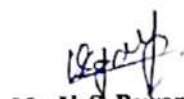
The 3<sup>rd</sup> online STTP (Phase III) was organized during 14<sup>th</sup> to 19<sup>th</sup> December 2020. This STTP was inaugurated by the hands of Dr. Chetan Singh Solanki, IIT Bombay, Mumbai, Maharashtra. The other experts who delivered lecture in this STTP were:


1. Dr. Ragavan Kanagaraj, Indian Institute of Technology Gandhinagar
2. Dr. Mahmadasraf A. Mulla, SVNIT, Surat, Gujrat
3. Dr. A. K. Panchal, SVNIT, Surat, Gujrat
4. Dr. Paresh J. Shah, SSBT's College of Engineering and Technology, Jalgaon, Maharashtra
5. Dr. Prashant V. Thakre, SSBT's College of Engg. & Tech., Jalgaon, Maharashtra
6. Mr. M. M. Ansari, SSBT's College of Engineering and Technology, Jalgaon

At the end of each STTP online test was conducted based on the sessions delivered. The participants took active participation and the certificates were issued to those participants having test score above 80%. Also the attendance criterion was strictly followed. Online feedbacks from the participants were also collected by steering committee. The practical sessions for each STTP was conducted by M/S National Infotech, Surat, Gujrat and it was very well appreciated by the participants. Few practicals were conducted by the institute also.


The steering committee consisting of Dr. Kishor S. Wani, Principal, Dr. S. R. Suralkar, Head, E&TC Dept, Dr. P. J. Shah, Professor, E&TC Dept., Dr. P. V. Thakre, Professor, E&TC Dept. & Mr. V. S. Pawar, Head, Electrical Engg. Dept. was continuously monitoring the STTP's for its smooth conduction. The steering committee also evaluated the participants during their online test and analyzed the online feedbacks submitted by participants. Thus overall all the STTP's were conducted smoothly and the participants were fortunate enough to acquire knowledge from the experts. At the end of each STTP the participants also gave oral feedback.

  
Dr. P. V. Thakre  
Expert  
(Member)

  
Mr. V. S. Pawar  
HOD  
(Member)

  
Dr. S. R. Suralkar  
HOD  
(Member)

  
Dr. P. J. Shah  
Coordinator  
(Member Secretary)

  
Dr. K. S. Wani  
Principal  
(Chairperson)

*Project Monitoring Committee*

**PRINCIPAL**  
SSBT's College of Engineering & Tech.  
Bambhorl, Jalgaon-425001(M.S.)

Date - 29/09/2020

**SSBT's College of Engineering & Technology, Bambhori, Jalgaon**

**AICTE Sponsored STTP on Digitally Controlled Power Converter for Industrial & Renewable Application**

**Minutes of Meeting**

Meeting was held on Saturday 26/09/2020 with Project Monitoring Committee and Organizing Committee members, for organizing AICTE sanctioned STTP on the topic 'Digitally Controlled Power Converter for Industrial & Renewable Application'.








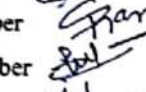


Minutes of the meeting are as follows: -

1. The letter has been mailed to the Faculty Development Cell, AICTE, New Delhi through Principal, regarding consent for organizing the sanction STTP program through online mode.
2. The tentative dates of STTP, as discussed in the meeting are as under:-
  - i. 1st STTP - 26th to 31st October, 2020
  - ii. 2nd STTP - 23rd to 28th November, 2020
  - iii. 3rd STTP - 14th to 19th December 2020
3. The meeting platform to be used during STTP will be CISCO WEBEX, as it is much more user friendly. The approximate cost of CISCO is 2500/- per month for 200 users.
4. The brochure is to be prepared for 1st STTP within a week.
5. Discussion on the venue for inauguration and system arrangement was done. Further discussion is to be done with higher authorities.
6. The banner required at the background is to be designed and printed.
7. A list of tentative speakers was prepared and it was decided to contact them and finalize the names of speakers as per their topics for all the three workshops.
8. Discussion with National Infotech, Surat is to be done for conducting the practical sessions.
9. Preparing schedule for STTP.
10. Remuneration for the speakers is to be finalized.
11. The meeting was ended with a vote of thanks.



**Dr. P. J. Shah**  
Coordinator  
AICTE Sponsored STTP

Following Project Monitoring Committee and Organizing Committee members were present for the meeting

1. Dr. K. S. Wani, Principal, Chairperson 
2. Dr. S. R. Suralkar, HOD, Member 
3. Mr. V. S. Pawar, HOD, Member 
4. Dr. P. V. Thakre, Expert, Member 
5. Dr. P. H. Zope, Member 
6. Mr. D. S. Patil, Member 
7. Mr. Amol Wani, Member 
8. Mr. Satpal Rajput, Member 
9. Mr. N. S. Mahajan, Member 
10. Mr. Y. H. Patil, Member 

**SSBT's College of Engineering & Technology, Bambhori, Jalgaon**

Date - 17/10/2020

**AICTE Sponsored STTP on Digitally Controlled Power Converter for Industrial & Renewable Application**  
**Minutes of Meeting**

Meeting was held on Friday 17/10/2020 with Project Monitoring Committee and Organizing Committee members, for organizing AICTE sanctioned STTP on the topic 'Digitally Controlled Power Converter for Industrial & Renewable Application' under AQIS Scheme (Phase 1).



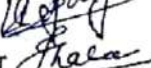







Minutes of the meeting are as follows: -

1. Permission received from Faculty Development Cell, AICTE, New Delhi for organizing the sanction three STTP program through online mode.
2. The planning and discussion on Phase 1 from 26th to 31st October, 2020 of STTP is done
3. The meeting platform to be used during STTP will be CISCO WEBEX, as it is much more user friendly. The approximate cost of CISCO is 2500/- per month for 100 users.
4. The brochure for Phase 1 is prepared and sent to different colleges and industries.
5. Permission taken for the venue for inauguration and system arrangement.
6. The banner required at the background is to be designed and printed.
7. Invited to the speakers for phase 1 and received their consents.
8. Invited to National Infotech, Surat for conducting the practical sessions and received their consents.
9. Preparing schedule for phase 1 of STTP.
10. Planning of Evaluation test and feedback is done.
11. Remuneration for the speakers is to be finalized.
12. The meeting was ended with a vote of thanks.



**Dr. P. J. Shah**  
Coordinator  
AICTE Sponsored STTP

Following Project Monitoring Committee and Organizing Committee members were present for the meeting

1. Dr. K. S. Wani, Principal, chairperson 
2. Dr. S. R. Suralkar, HOD, Member 
3. Mr. V. S. Pawar, HOD, Member 
4. Dr. P. V. Thakre, Expert, Member 
5. Dr. P. H. Zope, Member 
6. Mr. D. S. Patil, Member 
7. Mr. Amol Wani, Member 
8. Mr. Satpal Rajput, Member 
9. Mr. N. S. Mahajan, Member 
10. Mr. Y. H. Patil, Member 

**SSBT's College of Engineering & Technology, Bambhori, Jalgaon**

Date - 07/11/2020

**AICTE Sponsored STTP on Digitally Controlled Power Converter for Industrial & Renewable Application**

**Minutes of Meeting**

Meeting was held on Friday 07/11/2020 with Project Monitoring Committee and Organizing Committee members, for organizing AICTE sanctioned STTP on the topic 'Digitally Controlled Power Converter for Industrial & Renewable Application' under AQIS Scheme (Phase 2).








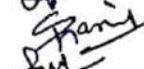


Minutes of the meeting are as follows: -

1. Follow up of phase 1 taken.
2. The planning and discussion on Phase 1 from 23rd to 28th November, 2020 of STTP is done
3. The meeting platform to be used during STTP will be CISCO WEBEX, as it is much more user friendly.
4. The brochure for Phase 2 is prepared and sent to different colleges and industries.
5. Permission taken for the venue for inauguration and system arrangement.
6. The banner required at the background is to be designed and printed.
7. Invited to the speakers for phase 2 and received their consents.
8. Invited to National Infotech, Surat for conducting the practical sessions and received their consents.
9. Preparing schedule for phase 2 of STTP.
10. Planning of Evaluation test and feedback is done.
11. The meeting was ended with a vote of thanks.



**Dr. P. J. Shah**  
Coordinator  
AICTE Sponsored STTP

Following Project Monitoring Committee and Organizing Committee members were present for the meeting

1. Dr. K. S. Wani, Principal, chairperson 
2. Dr. S. R. Suralkar, HOD, Member 
3. Mr. V. S. Pawar, HOD, Member 
4. Dr. P. V. Thakre, Expert, Member 
5. Dr. P. H. Zope, Member 
6. Mr. D. S. Patil, Member 
7. Mr. Amol Wani, Member 
8. Mr. Satpal Rajput, Member 
9. Mr. N. S. Mahajan, Member 
10. Mr. Y. H. Patil, Member 

**SSBT's College of Engineering & Technology, Bambhori, Jalgaon**

Date - 30/11/2020

**AICTE Sponsored STTP on Digitally Controlled Power Converter for Industrial & Renewable Application**

**Minutes of Meeting**

Meeting was held on Friday 30/11/2020 with Project Monitoring Committee and Organizing Committee members, for organizing AICTE sanctioned STTP on the topic 'Digitally Controlled Power Converter for Industrial & Renewable Application' under AQIS Scheme (Phase 3).



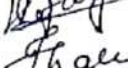



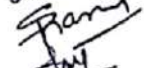



Minutes of the meeting are as follows: -

1. Follow up of phase 2 taken.
2. The planning and discussion on Phase 1 from 14th to 19th December, 2020 of STTP is done
3. The meeting platform to be used during STTP will be CISCO WEBEX, as it is much more user friendly.
4. The brochure for Phase 3 is prepared and sent to different colleges and industries.
5. Permission taken for the venue for inauguration and system arrangement.
6. The banner required at the background is to be designed and printed.
7. Invited to the speakers for phase 3 and received their consents.
8. Invited to National Infotech, Surat for conducting the practical sessions and received their consents.
9. Preparing schedule for phase 3 of STTP.
10. Planning of Evaluation test and feedback is done.
11. The meeting was ended with a vote of thanks.



**Dr. P. J. Shah**  
Coordinator  
AICTE Sponsored STTP

Following Project Monitoring Committee and Organizing Committee members were present for the meeting

1. Dr. K. S. Wani, Principal, chairperson 
2. Dr. S. R. Suralkar, HOD, Member 
3. Mr. V. S. Pawar, HOD, Member 
4. Dr. P. V. Thakre, Expert, Member 
5. Dr. P. H. Zope, Member 
6. Mr. D. S. Patil, Member 
7. Mr. Amol Wani, Member 
8. Mr. Satpal Rajput, Member 
9. Mr. N. S. Mahajan, Member 
10. Mr. Y. H. Patil, Member 





# AICTE-ISTE INDUCTION/REFRESHER PROGRAMMES – 2018-19



ISTE/AICTE-ISTE Induction/Refresher Programme/2018-19

October 9, 2020

Dear Sir/Madam,

Sub : AICTE-ISTE Sponsored Induction/Refresher Programs - regarding

Ref. : 1. Our letter dated September 28, 2020.  
2. Your consent letter by email to conduct the program.

- - -

Sanction is hereby accorded to conduct AICTE-ISTE Induction/Refresher Program in **Online Format** during **7/12/2020 to 12/12/2020** titled **Machine Learning and Pattern Recognition** as proposed by you. The institute is allowed to adjust the grants received for AICTE-ISTE online Programs at following rates:

a.	Honorarium for Coordinator	Rs.5,000.00
b.	Honorarium to Experts	Rs.75,000.00
c.	Provision for payment to lab attendant engaged during lab practices	Rs.3,000.00
d.	Miscellaneous charge	Rs.10,000.00
	<b>Total for each program</b>	<b>Rs.93,000.00</b>

You are requested to take steps to conduct the program subject to the following guidelines (as laid down by the AICTE and ISTE):

- **The program duration will be six days (Program can be started from any week day).**
- Coordinator must be a full-time regular faculty/instructor/trainer etc. & having knowledge and experience to conduct online FDP through any available suitable software.
- The total budget sanctioned for online program is Rs.93,000/- for one week. Expenses should not exceed the prescribed budget provisions.
- Coordinator may use any available software (Google Meet/WebEx/MS Team/ Go to Webinar etc.) for smooth conduction of online FDP and also he/she may explore any other available software.
- Minimum two sessions on inauguration day after inauguration and minimum two sessions before Valedictory function. Institutions/Coordinator will ensure minimum three sessions for remaining four days and one session from that may be utilized for feedback and assessment).

- Coordinator will be free to invite experts for 1½ hour compulsory session on the mental & emotional development, stress management, meditation, human values and ethics, health and happiness etc. which may be conducted by any spiritual social organizations / Individuals like Art of living or similar organization to promote FIT INDIA Movement across the country
- Maximum number of participants allowed is 100 per program and minimum should be 40.
- **Max permissible participants from host institute is 30%**
- An online test shall be conducted by coordinator at the end of the program.
- **The certificates shall be issued to only those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test**
- Eminent personalities in the field must be invited as the resource person and minimum one good resource person from industry should be invited during the program.
- Resource persons from outside India are also permitted but no participation from faculty from outside India is allowed.
- Ensure that AICTE officials and ISTE representatives will be invited for the Inauguration and for Valedictory Function of the program.
- In case the program is cancelled, the funds shall be called back from the institute by ISTE immediately along with interest accrued on the amount of grant released.
- Funds once released/sanctioned for organizing the particular topic/ area of FDP cannot be utilized for any other program.
- Maximum honorarium to any session will be Rs. 4000/-. Honorarium is also admissible to the guest called for Inauguration and Valedictory Function.
- The online sessions are to be recorded as the facility is available on the software which is being used for online delivery of FDP. Coordinators will also share recording of all sessions and participant's feedback about total online FDP with ISTE.
- Any unavoidable circumstantial change in the Program with respect to name of Coordinator, Venue and date for organizing AICTE-ISTE Program would mandatorily require prior approval from ISTE.
- **Post conduct of the event, the institute will submit the outcomes achieved from the program.**
- You have to follow all norms while conducting the program as laid down for conduction on online mode.

➤ **After completing all the program the institute has to send the following to ISTE within 21 days of the completion of the program for each program separately :**

- Detailed schedule of each training program.
- Program wise list of resource persons invited with full address, brief bio-data, contact details, topics etc.
- Program wise list of the total participants registered and the participants who have successfully completed the program on the basis of the attendance and test conducted by program coordinator. (With attendance report , marks obtained and question paper)
- External hard disc/Pen drive (of online recorded FDP and feedback of few participants) has to be sent for all programs separately.
- The institute should submit statement of expenditure after completion of the program duly audited by certified Chartered Accountant Firm. The head of expenditure should be in conformity with the sanctioned account heads as mentioned in previous page.
- **Institute should keep supporting bills/documents in original with them. It should be made available in verification, if required in future.**
- **Utilization Certificate (U.C.) is to be sent along with photocopy of bills for each program within 21 days after completion of all programs along with balance amount and interest accrued, if any to ISTE.**
- **Institute should submit separate report for each program. Separate Statement of Expenditure must be sent for each programme. However combined U.C. can be sent for all program. Expenditure norms are to be followed strictly for each individual program.**
- A program completion report for each program along with photographs, videos, media report is to be send after the completion of program.
- News/Media/Magazine cuttings/clippings if any.
- Two Copies of proceedings of each program.
- **Supporting bills/documents and paid vouchers on account of expenses incurred for the purpose along with Statement of Expenditure duly certified by Chartered Accountant with their Registered Membership Number.**
- Result of test conducted.
- **Report on the outcome achieved from each program for submission to AICTE.**

**Note :** All documents should be countersigned by the Coordinator and Director/Principal of the institution.

**The institutes will forward the following before the commencement of program**

- Link of FDP program brochure or template.
- Link of registration for faculties.
- Details of the program, day wise
- List of resource persons with topic

**Before one of the session:-**

- Response sheet of participants received for considering total number of participant.

**From Day 1 to till end (every day before and after session day)**

- Link of invitation of every session with password for joining to be shared with AICTE and ISTE.
- Attendance in respective online tools of attendee in screen shot or other format.
- Output response/ any test conducted every day or end of the STTP/FDP.
- Result of test conducted
- Response sheet of feedback of attendees on last day

I am confident that the program being organized at your institute under your able leadership would be a grand success. Assuring you the best cooperation from our end at all times.

With best regards,

Sd/-  
**(Col. B. Venkat)**  
Director, Faculty Development Cell, AICTE

Sd/-  
**(Prof. Vijay D. Vaidya)**  
Executive Secretary, ISTE

To

Dr. Pankaj Hiranman Zope  
Assistant Professor,  
SSBT's College of Engineering and Technology  
Bambhori,  
Jalgaon - 426001, Maharashtra



# AICTE-ISTE INDUCTION/REFRESHER PROGRAMMES – 2018-19



ISTE/AICTE-ISTE Induction/Refresher Programme/2018-19

October 16, 2020

Dear Sir/Madam,

Sub : AICTE-ISTE Sponsored Induction/Refresher Programs - regarding

Ref. : 1. Our letter dated September 28, 2020.  
2. Your consent letter by email to conduct the program.

- - -

Sanction is hereby accorded to the institute to conduct two additional AICTE-ISTE Induction/Refresher Program in **Online Format** on the same subject titled **Machine Learning and Pattern Recognition** during **02/11/2020 to 07/11/2020** and **21/12/2020 to 26/12/2020** as proposed. The institute is allowed to adjust the grants received for AICTE-ISTE online Programs at the following rates:

a.	Honorarium for Coordinator	Rs.5,000.00
b.	Honorarium to Experts	Rs.75,000.00
c.	Provision for payment to lab attendant engaged during lab practices	Rs.3,000.00
d.	Miscellaneous charge	Rs.10,000.00
	<b>Total for each program</b>	<b>Rs.93,000.00</b>

You are requested to take steps to conduct the program subject to the following guidelines (as laid down by the AICTE and ISTE):

- **The program duration will be six days (Program can be started from any week day).**
- Coordinator must be a full-time regular faculty/instructor/trainer etc. & having knowledge and experience to conduct online FDP through any available suitable software.
- The total budget sanctioned for online program is Rs.93,000/- for one week. Expenses should not exceed the prescribed budget provisions.
- Coordinator may use any available software (Google Meet/WebEx/MS Team/ Go to Webinar etc.) for smooth conduction of online FDP and also he/she may explore any other available software.
- Minimum two sessions on inauguration day after inauguration and minimum two sessions before Valedictory function. Institutions/Coordinator will ensure minimum three sessions for remaining four days and one session from that may be utilized for feedback and assessment).

---

SHAHEED JEET SINGH MARG, NEAR KATWARIA SARAI, OPP. SANSKRIT VIDYAPEETH, NEW DELHI – 110 016

Phone : 011-26513542, 26963431; email : [istedhq@isteonline.org](mailto:istedhq@isteonline.org); website : [www.isteonline.in](http://www.isteonline.in)

- Coordinator will be free to invite experts for 1½ hour compulsory session on the mental & emotional development, stress management, meditation, human values and ethics, health and happiness etc. which may be conducted by any spiritual social organizations / Individuals like Art of living or similar organization to promote FIT INDIA Movement across the country
- Maximum number of participants allowed is 100 per program and minimum should be 40.
- **Max permissible participants from host institute is 30%**
- An online test shall be conducted by coordinator at the end of the program.
- **The certificates shall be issued to only those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test**
- Eminent personalities in the field must be invited as the resource person and minimum one good resource person from industry should be invited during the program.
- Resource persons from outside India are also permitted but no participation from faculty from outside India is allowed.
- Ensure that AICTE officials and ISTE representatives will be invited for the Inauguration and for Valedictory Function of the program.
- In case the program is cancelled, the funds shall be called back from the institute by ISTE immediately along with interest accrued on the amount of grant released.
- Funds once released/sanctioned for organizing the particular topic/ area of FDP cannot be utilized for any other program.
- Maximum honorarium to any session will be Rs. 4000/-. Honorarium is also admissible to the guest called for Inauguration and Valedictory Function.
- The online sessions are to be recorded as the facility is available on the software which is being used for online delivery of FDP. Coordinators will also share recording of all sessions and participant's feedback about total online FDP with ISTE.
- Any unavoidable circumstantial change in the Program with respect to name of Coordinator, Venue and date for organizing AICTE-ISTE Program would mandatorily require prior approval from ISTE.
- **Post conduct of the event, the institute will submit the outcomes achieved from the program.**
- You have to follow all norms while conducting the program as laid down for conduction on online mode.

- **After completing all the program the institute has to send the following to ISTE within 21 days of the completion of the program for each program separately :**
- Detailed schedule of each training program.
  - Program wise list of resource persons invited with full address, brief bio-data, contact details, topics etc.
  - Program wise list of the total participants registered and the participants who have successfully completed the program on the basis of the attendance and test conducted by program coordinator. (With attendance report , marks obtained and question paper)
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With best regards,

Sd/-  
**(Col. B. Venkat)**  
Director, Faculty Development Cell, AICTE

Sd/-  
**(Prof. Vijay D. Vaidya)**  
Executive Secretary, ISTE

To

Dr. Pankaj Hiranman Zope  
Assistant Professor,  
SSBT's College of Engineering and Technology  
Bambhori,  
Jalgaon - 426001, Maharashtra

To,

The Principal,  
SSBT's College of Engineering & Technology,  
Bambhori, Jalgaon

Date: 24/10/2020

Through: HOD E&TC

*[Signature]*  
24/10/2020

Permitted.  
*[Signature]*  
26.10.2020

**Subject:** Permission to organize AICTE-ISTE sanctioned three online one week Refresher / Induction Programs 2018-19.

- Ref:-1. ISTE/AICTE-ISTE FDP-1-3508374205/2018-19 dated March 11, 2020.  
2. ISTE/AICTE-ISTE Programs/2018-19 dated September 28, 2020.  
3. ISTE/AICTE-ISTE Induction/Refresher Programme/2018-19 October 9, 2020

Respected Sir,

With respect to above cited subject, AICTE-ISTE sanctioned three online one week Refresher / Induction Programs on "Machine Learning and Pattern Recognition". The first installment of Rs. 93000/- (Rupees Ninety Three Thousand only) for Phase-I is sanctioned and transferred to college account.

The tentative budget for each STTP is as follows.

Sr. nos.	Details	Amount in rupees
1	Honorarium to course coordinator	5000
2	Honorarium to Experts/ Resource Persons	75000
3	Lab Attendant engaged during lab practices	3000
4	Miscellaneous	10000
	<b>Total</b>	<b>93000</b>

Total Budget for Phase-I Refresher / Induction Programs through online mode.: Rs. 93000/-.

It is kindly requested to permit us to organize and approve the above mentioned budget for Phase -I of Refresher / Induction Programs through online mode.

Thanking You.

Do the needful  
as per AICTE-ISTE  
guide line

*[Signature]*  
Dr. P. H. Zope  
Coordinator  
A.P, E&TC Deptt.

*[Signature]*  
26/10/2020

Enclosed: AICTE Sanctioned letters

To,  
The Principal,  
SSBT's College of Engineering & Technology,  
Bambhori, Jalgaon

Date: 01/12/2020

Through: HOD-E&TC

Subject: Permission to organize and utilization of fund for the AICTE-ISTE Sponsored one week Refresher / Induction Programs for Phase-II.

- Ref:-1. ISTE/AICTE-ISTE FDP-1-3508374205/2018-19 dated March 11, 2020.  
2. ISTE/AICTE-ISTE Programs/2018-19 dated September 28, 2020.  
3. ISTE/AICTE-ISTE Induction/Refresher Programme/2018-19 October 9, 2020

Respected Sir,

With respect to above cited subject, AICTE-ISTE sanctioned three online one week Refresher / Induction Programs on "Machine Learning and Pattern Recognition". The second installment of Rs. 93000/- (Rupees Ninety Three Thousand only) for Phase-II is sanctioned and transferred to college account.

The tentative budget for each STTP is as follows.

Sr. nos.	Details	Amount in rupees
1	Honorarium to course coordinator	5000
2	Honorarium to Experts/ Resource Persons	75000
3	Lab Attendant engaged during lab practices	3000
4	Miscellaneous	10000
	<b>Total</b>	<b>93000</b>

Total Budget for Phase-II Refresher / Induction Programs through online mode.: Rs. 93000/-.

It is kindly requested to permit us to organize and approve the above mentioned budget for Phase-II of Refresher / Induction Programs through online mode.

Thanking You.

Enclosed: AICTE Sanctioned letters

(R)

As per AICTE-ISTE  
quite line  
8 Dec  
04/12/2020

Approved (R)

4.12.2020

Dr. P. H. Zope  
Coordinator  
A.P, E&TC Deptt.

To,  
A.P.,  
for needed.  
1-12-2020

To,  
The Principal,  
SSBT's COET,  
Bambhori.

Date :-19/12/2020

Through:- Convener and H. O. D. E&TC.

*[Signature]*  
19/12/2020

To,  
A.R.,  
for receipt of  
*[Signature]*  
19.12.2020

Subject:- About organizing AICTE-ISTE online one week Refresher/ Induction Program 2018-19 Phase-III.

Respected sir,

With respected to above cited subject, AICTE-ISTE sanctioned three online one week Refresher/ Induction Program on Machine Learning and Pattern Recognition. The third installment of Rs-93000/- for Phase-III is sanctioned, but not received in our college account till date. In this regards I did telephonic communication with Ms. Sarala, ISTE, New Delhi. Ms. Sarala informed the sanctioned grant amount will be deposited in your college account as soon as possible as the fund will be released from AICTE. So you conduct the program as per proposed and sanctioned schedule.

In this regards I would like to request you that as soon as the grant is credited in our college account, please release the amount immediately for disbursement of Honorarium of Speakers and for other expenses. The schedule of Phase-III of this refresher / Induction program is from 21/12/2020 to 26/12/2020. } (A)

Thanking you

Yours truly

*[Signature]*

Dr. P. H. Zope  
Co-ordinator AICTE/ ISTE  
Refresher/ Induction Program  
E&TC Department

मा. प्राचार्य साहेब

स्वर अनुदान महाविद्यालयाला  
भाष पंचित माउत साले बाहे  
भाषच्या भाषीनी करीत सापर

*[Signature]*  
92/92/2020  
Noted. However whenever grant will be received, then release the payment.  
*[Signature]*  
19.12.2020



Shram Sadhana Bombay Trust's  
COLLEGE OF ENGINEERING AND TECHNOLOGY-  
BAMBHORI, POST BOX NO. 94, JALGAON – 425001

Included under section 2 (f) & 12 (B) of the UGC Act, 1956  
Grade B++ (2.91) NAAC Accredited

**AICTE-ISTE Sponsored**

**One Week Online Induction / Refresher Program  
On**

**Machine Learning and Pattern Recognition  
(Phase-I)**

**2<sup>nd</sup> Nov. to 7<sup>th</sup> Nov. 2020**

### ELIGIBILITY AND SELECTION CRITERIA

Selection will be done based on First-Come-First Serve basis. Decision of the Project Monitoring Committee (PMC) will be final in all regards.

The faculty members of the AICTE approved institutions, research scholar, PG Scholars and Industry Persons can apply.

**Note:** A Evaluation Test will be conducted at the end of program and Certificates will be issued only to those participants attending all sessions of Induction / Refresher Program and who qualifies the test with 60% marks.

### IMPORTANT DATES

Last date of Registration : 26/10/2020

Confirmation to the participants: 28/10/2020

### CORRESPONDENCE

**Mr. S. P. Ramteke**

Asst. Prof., Electronics and Telecommunication Department  
surendramteke@rediffmail.com, 9423432362

**Mr. A. H. Karode**

Asst. Prof., Electronics and Telecommunication Department  
atulkarode@gmail.com , 9850087247

### CHIEF PATRON

**Shri. Raosaheb D. Shekhawat**

Managing Trustee

### PATRON

Prof. (Dr) K. S. Wani

Principal

Prof. (Dr) S. P. Shekhawat

Vice Principal

### CONVENER

Dr. Shekhar R. Suralkar

Professor and Head

Department of Electronics and Telecommunication

### Coordinator

Dr. P. H. Zope

Assistant Professor

Department of Electronics and Telecommunication

### ORGANISING COMMITTEE

Dr. P. V. Thakre

Mr. N. M. Kazi

Mr. S. P. Ramteke

Mr. A. H. Karode

Mr. A. C. Wani

Mr. S. K. Khode

### REGISTRATION LINK

**No Registration Fee**

Click on link for Registration or scan QR code

<https://forms.gle/gXR4r8NLDiCatx3R7>



**AICTE-ISTE Sponsored**

**One Week Online Induction / Refresher Program  
On**

**Machine Learning and Pattern Recognition  
(Phase-I)**

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### ORGANIZED BY

Department of Electronics & Telecommunication  
Engineering



**Shram Sadhana Bombay Trust's**

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

Office Phone ☎: 0257-2258391/93

Fax: 0257-2258392

Website: - [www.ssoetjalgaon.ac.in](http://www.ssoetjalgaon.ac.in)

## ABOUT INSTITUTE

Shram Sadhana Bombay Trust runs College of Engineering & Technology, Bambhori, Jalgaon, which is one of the important industrial town & district headquarters of Maharashtra State. SSBT's 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 program were accredited by National Board of Accreditation, New Delhi for three times and presently NAAC accredited with B++ grade.

### Under Graduate (UG) courses:

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

### Ph.D. Programmes:

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

## ABOUT E&TC DEPARTMENT

In the establishment year of college 1983, the Electronics Engg. Branch was started with intake of sixty & as per the need of time it was converted to Electronics and Telecommunication from academic year 2001. The Department has got the NBA Accreditation by National Board of Accreditation (NBA) Committee constituted under AICTE with effect from 19/07/2008 for 5 Years and re-Accredited for 3 Years from 01-07-2014. During the last 36 years, the department developed the ten well equipped and furnished labs with laboratory recognition from KBC NMU Jalgaon for Ph.D. Research along with Seminar Hall, departmental library etc.. The departmental computer Lab is having software's like MATLAB, XILINX, DSP, ULTI-BOARD, ORCAD etc, & Department also initiated in collaboration with IIT Powai for establishment of Roboites Lab under e-Yantra initiative. The department has maintained the track record of excellent results by securing Ist Rank and Gold Medal at university level examination. The major strength of the E&TC Engineering Department is highly-qualified, experienced & dedicated teaching staff.

The E&TC students association organizes Co-curricular, Cultural & Social activities for the overall development of students. Organizes visits to the industries, guest lecturers of eminent personalities, training programs etc. Best academic results, rank holders at university level success of students in competitive examinations & placement of students in renowned industries are some of the achievements of the department.

## INTRODUCTION

What is machine learning? Each time people do a web search on Google or Bing, that works so well because their machine learning software has figured out how to rank what pages. When Facebook or Apple's photo application recognizes your friends in your pictures, that's also machine learning. Each time you read your email and a spam filter saves you from having to wade through tons of spam, again, that's because your computer has learned to distinguish spam from non-spam email. So, that's machine learning. There's a science of getting computers to learn without being explicitly programmed. One of the research projects that we are working on is getting robots to tidy up the house. How do you go about doing that? Well what you can do is have the robot watch you demonstrate the task and learn from that. The robot can then watch what objects you pick up and where to put them and try to do the same thing even when you aren't there. For me, one of the reasons we are excited about this is the AI, or artificial intelligence problem. Building truly intelligent machines, we can do just about anything that you or I can do. Many scientists think the best way to make progress on this is through learning algorithms called neural networks, which mimic how the human brain works.

Pattern Recognition (PR) is a branch Image Processing that focuses on the recognition of patterns, regularities in data, object detection and classification, clustering, data mining, and speech recognition etc. Machine Learning (ML) is the science of getting computers to act without being explicitly programmed. In the past decade, machine learning has given us self-driving cars, practical speech recognition, effective web search, and a vastly improved understanding of the human genome. Many researchers also think it is the best way to make progress towards human-level AI. It plays a significant role in the modern engineering and information processing systems. Pattern recognition systems are in many cases trained from labeled "training" data (supervised learning), but when no labeled data are available other algorithms can be used to discover previously unknown patterns (unsupervised learning). In this context various computational technologies have emerged like deep learning, big data analysis, data science, artificial intelligence & machine learning.

The aim of this Refresher / Induction Programme is to provide an exposure to both basics and recent advances in Machine Learning & Pattern Recognition to the teaching, industry persons and research community associated with the departments of E&TC Engineering, Computer Science & IT, Electrical Engineering etc.

## COURSE OBJECTIVES

The objective of the FDP is to introduce fundamentals of Machine Learning, artificial intelligence, fuzzy logic, pattern recognition techniques with their real time applications. Overall, this FDP is serving to be a great platform for faculty, industry person and researchers to upgrade their knowledge in the area of Artificial Intelligence, Deep learning, Pattern Recognition and its applications

## ABOUT STTP

AICTE-ISTE Induction/Refresher Program intends to conduct faculty trainings through financial assistance from AICTE-ISTE to enable faculty members in the field of technical education to introspect and learn techniques that can help to prepare students for active and successful participation in a knowledge society. This Induction/Refresher Program will definitely enhance the knowledge of every researcher, faculty and students working in Machine Learning and Pattern Recognition area. The participants will also be able to gain practical knowledge during the practical session .

## COURSE CONTENTS

**Data Science Fundamentals-** Python for Data Science, Pandas, Numpy, Matplotlib **Supervised Learning** – Classification, Supervised Learning – Regression, **Unsupervised Learning** – Clustering, Unsupervised Learning - Dimensionality Reduction. **Web Scraping**, NLP, Image Processing (Open CV) and Face Detection, **Artificial Neural Networks (ANN)**, Convolutional **Neural Networks (CNN)** **Pattern Recognition**, Issues involved in Pattern Recognition, Various Applications of Pattern Recognition, Feature Generations, Classification models, Facial Recognition, Object Tracking, Artificial Intelligence, Visual Object Recognition, Medical Image Analysis, IRIS & Fingerprint Recognition, Human Pose Estimation, Biometric Recognition, Human Computer Interactions.

## Lab session on

Online virtual survey of Laboratories with related examples will be carried out whatever possible from following Scraping Amazon Website / Flipkart Website Product User Reviews Sentiment analysis using Natural Language Toolkit (NLTK) of Amazon Product Reviews Reading and Converting image to Array, Image Processing, Displaying Images, Face/Smile/Eyes Detection through Image Creating Simple Neural Network from Scratch, Hand-written digit recognition using Neural networks Using Tensor flow Library Image identification and classification project (Cats Vs Dogs) Using CNN Create Machine learning Classification model for IRIS flower type prediction Creating Machine learning model for Sales value prediction Using Regression Customers churn analysis and form clusters using unsupervised learning based upon earning and spending score. Implement PCA for reducing dimension of a data set and generate most reasonable reduced feature matrix.

## RESOURCE PERSONS

Distinguished faculties of IITs/DTU/IIITD and other experts from reputed industries and research organizations.



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On

**Machine Learning and Pattern Recognition**  
**(Phase-II)**

**7<sup>th</sup> Dec to 12<sup>th</sup> Dec. 2020**

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Mr. Dhanesh Patil

Dr. P. J. Shah

Mr. Nilesh Mahajan

Mr. S. P. Ramteke

Mr. N. M. Kazi

Mr. A. H. Karode

Mr. A. C. Wani

Mr. S. K. Khode

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<https://forms.gle/GAWindiVxv9EgAMz8>

or

scan QR code

**SCAN ME**



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**(Phase-II)**

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Mechanical Engineering

## ABOUT E&TC DEPARTMENT

In the establishment year of college 1983, the Electronics Engg. Branch was started with intake of sixty & as per the need of time it was converted to Electronics and Telecommunication from academic year 2001. The Department has got the NBA Accreditation by National Board of Accreditation (NBA) Committee constituted under AICTE with effect from 19/07/2008 for 5 Years and re-Accredited for 3 Years from 01-07-2014. During the last 36 years, the department developed the ten well equipped and furnished labs with laboratory recognition from KBC NMU Jalgaon for Ph.D. Research along with Seminar Hall, departmental library etc.. The departmental computer Lab is having software's like MATLAB, XILINX, DSP, ULTI-BOARD, ORCAD etc, & Department also initiated in collaboration with IIT Powai for establishment of Roboites Lab under e-Yantra initiative. The department has maintained the track record of excellent results by securing 1st Rank and Gold Medal at university level examination. The major strength of the E&TC Engineering Department is highly-qualified, experienced & dedicated teaching staff.

The E&TC students association organizes Co-curricular, Cultural & Social activities for the overall development of students. Organizes visits to the industries, guest lecturers of eminent personalities, training programs etc. Best academic results, rank holders at university level success of students in competitive examinations & placement of students in renowned industries are some of the achievements of the department.

## INTRODUCTION

What is machine learning? Each time people do a web search on Google or Bing, that works so well because their machine learning software has figured out how to rank what pages. When Facebook or Apple's photo application recognizes your friends in your pictures, that's also machine learning. Each time you read your email and a spam filter saves you from having to wade through tons of spam, again, that's because your computer has learned to distinguish spam from non-spam email. So, that's machine learning. There's a science of getting computers to learn without being explicitly programmed. One of the research projects that we are working on is getting robots to tidy up the house. How do you go about doing that? Well what you can do is have the robot watch you demonstrate the task and learn from that. The robot can then watch what objects you pick up and where to put them and try to do the same thing even when you aren't there. For me, one of the reasons we are excited about this is the AI, or artificial intelligence problem. Building truly intelligent machines, we can do just about anything that you or I can do. Many scientists think the best way to make progress on this is through learning algorithms called neural networks, which mimic how the human brain works.

Pattern Recognition (PR) is a branch Image Processing that focuses on the recognition of patterns, regularities in data, object detection and classification, clustering, data mining, and speech recognition etc. Machine Learning (ML) is the science of getting computers to act without being explicitly programmed. In the past decade, machine learning has given us self-driving cars, practical speech recognition, effective web search, and a vastly improved understanding of the human genome. Many researchers also think it is the best way to make progress towards human-level AI. It plays a significant role in the modern engineering and information processing systems. Pattern recognition systems are in many cases trained from labeled "training" data (supervised learning), but when no labeled data are available other algorithms can be used to discover previously unknown patterns (unsupervised learning). In this context various computational technologies have emerged like deep learning, big data analysis, data science, artificial intelligence & machine learning.

The aim of this Refresher / Induction Programme is to provide an exposure to both basics and recent advances in Machine Learning & Pattern Recognition to the teaching, industry persons and research community associated with the departments of E&TC Engineering, Computer Science & IT, Electrical Engineering etc.

## COURSE OBJECTIVES

The objective of the FDP is to introduce fundamentals of Machine Learning, artificial intelligence, fuzzy logic, pattern recognition techniques with their real time applications. Overall, this FDP is serving to be a great platform for faculty, industry person and researchers to upgrade their knowledge in the area of Artificial Intelligence, Deep learning, Pattern Recognition and its applications

## ABOUT STPT

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## COURSE CONTENTS

Data Science Fundamentals- Python for Data Science, Pandas, Numpy, Matplotlib Supervised Learning – Classification, Supervised Learning – Regression, Unsupervised Learning – Clustering, Unsupervised Learning - Dimensionality Reduction Introduction to Web Scraping, NLP, Image Processing (Open CV) and Face Detection, Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN) Introduction to Pattern Recognition, Issues involved in Pattern Recognition, Various Applications of Pattern Recognition, Feature Generations, Classification models, Facial Recognition, Object Tracking, Artificial Intelligence, Visual Object Recognition, Medical Image Analysis, IRIS & Fingerprint Recognition, Human Pose Estimation, Biometric Recognition, Human Computer Interactions.

## Lab session on

Online virtual survey of Laboratories with related examples will be carried out whatever possible from following Scraping Amazon Website / Flipkart Website Product User Reviews Sentiment analysis using Natural Language Toolkit (NLTK) of Amazon Product Reviews Reading and Converting image to Array, Image Processing, Displaying Images, Face/Smile/Eyes Detection through Image Creating Simple Neural Network from Scratch, Hand-written digit recognition using Neural networks Using Tensor flow Library Image identification and classification project (Cats Vs Dogs) Using CNN Create Machine learning Classification model for IRIS flower type prediction Creating Machine learning model for Sales value prediction Using Regression Customers churn analysis and form clusters using unsupervised learning based upon earning and spending score. Implement PCA for reducing dimension of a data set and generate most reasonable reduced feature matrix.

## RESOURCE PERSONS

Distinguished faculties of IITs/DTU/IITD and other experts from reputed industries and research organizations.



Shram 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 B++ (2.91) NAAC Accredited

**AICTE-ISTE Sponsored**

**One Week Online Induction / Refresher Program**  
On

**Machine Learning and Pattern Recognition**  
**(Phase-III)**

**21<sup>st</sup> Dec to 26<sup>th</sup> Dec 2020**

### ELIGIBILITY AND SELECTION CRITERIA

Selection will be done based on First-Come-First Serve basis. Decision of the Project Monitoring Committee (PMC) will be final in all regards.

The faculty members of the AICTE approved institutions, research scholar, PG Scholars and Industry Persons can apply.

**Note:** A Evaluation Test will be conducted at the end of program and Certificates will be issued only to those participants attending all sessions of Induction / Refresher Program and who qualifies the test with 60% marks.

### IMPORTANT DATES

Last date of Registration : 16/12/2020

Confirmation to the participants: 17/12/2020

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Vice Principal

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Department of Electronics and Telecommunication

### Coordinator

Dr. P. H. Zope

Assistant Professor

Department of Electronics and Telecommunication

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Mr. N. M. Kazi

Mr. A. H. Karode

Mr. A. C. Wani

Mr. S. K. Khode

### REGISTRATION LINK

**No Registration Fee**

Click on link for Registration

<https://forms.gle/s5NbsMEReeZqfcuJ7>

or

scan QR code



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### ORGANIZED BY

Department of Electronics & Telecommunication  
Engineering



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## ABOUT INSTITUTE

Shram Sadhana Bombay Trust runs College of Engineering & Technology, Bambhori, Jalgaon, which is one of the important industrial town & district headquarters of Maharashtra State. SSBT's 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 program were accredited by National Board of Accreditation, New Delhi for three times and presently NAAC accredited with B++ grade.

### Under Graduate (UG) courses:

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

### Ph.D. Programmes:

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

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# SSBT's College of Engineering and Technology, Jalgaon, Maharashtra

Department of Electronics and Telecommunication Engineering

AICTE-ISTE Sponsored one week online Induction/Refresher Programme on

Machine Learning and Pattern Recognition (Phase-I)

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02 November to 07 November 2020

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Dr. P. H.Zope  
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AICTE-ISTE Induction / Refresher  
Program on Machine Learning and Pattern  
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Dr. K. S. Wani  
Principal

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Department of Electronics and Telecommunication Engineering

AICTE-ISTE Sponsored one week online Induction/Refresher Programme on

Machine Learning and Pattern Recognition (Phase-II)


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07 December to 12 December 2020

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Dr. P. H. Zope  
Co-ordinator  
AICTE-ISTE Induction / Refresher  
Program on Machine Learning and Pattern  
Recognition



Dr. K. S. Wani  
Principal

# SSBT's College of Engineering and Technology, Jalgaon, Maharashtra

Department of Electronics and Telecommunication Engineering  
AICTE-ISTE Sponsored one week online Induction/Refresher Programme on  
Machine Learning and Pattern Recognition (Phase-III)

List of Participant

21 December to 26 December 2020

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Dr. P. H.Zope  
Co-ordinator  
AICTE-ISTE Induction / Refresher  
Program on Machine Learning and Pattern  
Recognition



Dr. K. S. Wani  
Principal

## ***SSBT's College of Engineering & Technology, Bambhori, Jalgaon***

Date: 10-11-2020

### **Completion report on AICTE-ISTE sponsored online Refresher / Induction Program on “Machine Learning and Pattern Recognition” (Phase-I).**

AICTE had sanctioned the grant of Rs. 300000/- to Dr. Pankaj H. Zope, Assistant Professor, Electronics and Telecommunication Department for conduct of Refresher / Induction Program on “Machine Learning and Pattern Recognition” on March 11, 2020 with AICTE Sanctioned letter no. ISTE/AICTE-ISTE FDP-1-3508374205/2018-19, dated 11/03/2020. The permission was given to conduct it in physical mode. But due to pandemic, the COVID-19, most of the Institutes were facing difficulties in organization and conduct STTPs. Then AICTE-ISTE sent letter to conduct the program through online mode and institute has to conduct three separate one week online program. The total budget sanctioned for online program is Rs.93, 000/- for one week.

Accordingly institute has planned and AICTE-ISTE given sanction to conduct three Refresher / Induction Program on following dates.

Phase I – 2nd to 7th November, 2020

(ISTE/AICTE-ISTE Induction/Refresher Programme/2018-19 October 16, 2020)

Phase II – 7th to 12th December, 2020

(ISTE/AICTE-ISTE Induction/Refresher Programme/2018-19 October 9, 2020)

Phase III – 21st to 26th December 2020

(ISTE/AICTE-ISTE Induction/Refresher Programme/2018-19 October 16, 2020)

Following working committee with Roles and Responsibilities are formed for smooth conduction of online program

Sr. nos.	Work	Roles and Responsibilities	Faculty Members
1	Technical	Computer, Internet and hardware etc.	Mr. Satpal Rajput
2	Invitation Letter	Prepare Invitation Letter and regular follow-up with speakers with session.	Mr. S. P. Ramteke
3	Finance	Maintaining the details of expenditure and invoice/ Vouchers, News Preparation etc.	Mr. A. H. Karode
4	Session Communication Mentor	Daily Session organization, Guest and Topic Introduction, Follow up of feedback and attendance link	Dr. P. V. Thakre Mr. N. M. Kazi Mr. A. C. Wani
5	Designing and Printing	Designing & Printing Brochure, Certificates, banners, Setting of feedback, attendance. Organizing session	Mr. Dhanesh Patil Mr. Nilesh Mahajan Mr. S. K. Khode
6	Laboratory Attendant	Engaging laboratory software, Arranging instruments etc.	Mrs. R. B. Patil

Electronics & Telecommunication Engineering Department of SSBT's College of Engineering and Technology, Jalgaon, Maharashtra, have organized this AICTE-ISTE sponsored online Induction/Refresher Programme Phase-I between 2nd to 7th November, 2020.

The main objective of this program was to update the faculty members, industry persons and research scholars about the use of Machine Learning and Pattern Recognition applications. The program aims to address key issues such as designing, modeling, implementation, analysis and study of associated Machine Learning and Pattern. The goal of the study is to come up with, or infer, an approximate mapping function that can be applied to one or more input variables, and produce an output variable or result. The training process involves taking a supervised training data set with non features and a label. We know Artificial Intelligence and Machine Learning is the most growing and popular field in every branch of Engineering. Participants, who have joined this STTP from different states, such as Uttar Pradesh, West Bengal, Andhra Pradesh, Karnataka, Orissa, Madhya Pradesh, Chhattisgarh, Rajasthan, Gujarat, Himachal Pradesh, Haryana, New Delhi, Goa and of course Maharashtra state.

**All sessions were conducted by eminent speakers in the research, from all over India:**

The resource persons for Phase I:

Sr No	Topic	Resource person	Affiliation
1	Introduction to ML and PR	Dr. U. S. Bhadade	Professor
2	Modeling and Performance Evaluation Techniques using Python	Dr. Ramesh Manza	Dr. B. A. M University, Aurangabad
3	Pattern Recognition Approach to OCR	Dr.R. J. Ramteke	KBC NMU Jalgaon
4	Pattern Recognition in Image and Video Processing	Dr. Pravin Yannawar	Dr. B. A. M University, Aurangabad
5	Computer vision vs human vision	Dr.G R Sinha	MIIT Mandalay Myanmar
6	Multimodal Biometric Data Analysis for Gender Classification – A Machine Learning Approach	Dr. Shivanand Gornale	Rani Channamma University, Belagavi
7	Generative and discriminative model for Documents classification using Naive Bayes and logistic regression	Dr. Vijay B Semwal	MNIT Bhopal
8	Engineering Mind to Manage Challenges Under Art of Living	Dr.E. V. Swaminathan	Spiritual Guru, Taliparamba, Kannur, Kerala
9	RNN and LSTM	Dr. Jitendra Tembhurne	IIT Nagpur
10	1. Data Science Fundamentals 2. Supervised Learning - Classification Regression	Bipul Kumar Shahi	Senior AI Consultant Noida, New Delhi

	3. Learning - Clustering Dimensionality Reduction		
11	<ol style="list-style-type: none"> <li>1. Introduction to Web Scraping Scraping Amazon Website / Flipkart Website Product User Reviews</li> <li>2. Natural Language Processing</li> <li>3. Image Processing (Open CV) and Face Detection</li> <li>4. Artificial Neural Networks (ANN) Artificial Intelligence</li> <li>5. Convolutional Neural Networks (CNN)</li> </ol>	Umang Kejerwal	Director Apptronix Tech. Noida, New Delhi

All practical sessions were conducted by the team of Apptronix Tech. Noida, New Delhi. Apptronix Tech. is working in the field of Machine Learning , Artificial Intelligence , Pattern Recognition, embedded system development and custom industrial automation and have a training center in embedded system, industrial instrumentation, automations, and developing educational trainers for academic institutes and industrial solution. Mr. Umang Kejerwal is the Director-Technical and Mr. Bipul Kumar Shahi is Training coordinator at Apptronix Tech. Noida.

Phase-I of AICTE-ISTE sponsored online Refresher / Induction Program on “Machine Learning and Pattern Recognition” have been completed successfully.

Thank you.



**Dr. P. H. Zope**

**Coordinator, AICTE-ISTE Sponsored  
Online Refresher / Induction Program**



**Dr. K. S. Wani**

**Principal**

## ***SSBT's College of Engineering & Technology, Bambhori, Jalgaon***

Date: 15-12-2020

### **Completion report on AICTE-ISTE sponsored online Refresher / Induction Program on “Machine Learning and Pattern Recognition” (Phase-II).**

AICTE had sanctioned the grant of Rs. 300000/- to Dr. Pankaj H. Zope, Assistant Professor, Electronics and Telecommunication Department for conduct of Refresher / Induction Program on “Machine Learning and Pattern Recognition” on March 11, 2020 with AICTE Sanctioned letter no. ISTE/AICTE-ISTE FDP-1-3508374205/2018-19, dated 11/03/2020. The permission was given to conduct it in physical mode. But due to pandemic, the COVID-19, most of the Institutes were facing difficulties in organization and conduct STTPs. Then AICTE-ISTE sent letter to conduct the program through online mode and institute has to conduct three separate one week online program. The total budget sanctioned for online program is Rs.93, 000/- for one week.

Accordingly institute has planned and AICTE-ISTE given sanction to conduct three Refresher / Induction Program on following dates.

Phase I – 2nd to 7th November, 2020

(ISTE/AICTE-ISTE Induction/Refresher Programme/2018-19 October 16, 2020)

Phase II – 7th to 12th December, 2020

(ISTE/AICTE-ISTE Induction/Refresher Programme/2018-19 October 9, 2020)

Phase III – 21st to 26th December 2020

(ISTE/AICTE-ISTE Induction/Refresher Programme/2018-19 October 16, 2020)

Following working committee with Roles and Responsibilities are formed for smooth conduction of online program

Sr. nos.	Work	Roles and Responsibilities	Faculty Members
1	Technical	Computer, Internet and hardware etc.	Mr. Satpal Rajput
2	Invitation Letter	Prepare Invitation Letter and regular follow-up with speakers with session.	Mr. S. P. Ramteke
3	Finance	Maintaining the details of expenditure and invoice/ Vouchers, News Preparation etc.	Mr. A. H. Karode
4	Session Communication Mentor	Daily Session organization, Guest and Topic Introduction, Follow up of feedback and attendance link	Dr. P. V. Thakre Mr. N. M. Kazi Mr. A. C. Wani
5	Designing and Printing	Designing & Printing Brochure, Certificates, banners, Setting of feedback, attendance. Organizing session	Mr. Dhanesh Patil Mr. Nilesh Mahajan Mr. S. K. Khode
6	Laboratory Attendant	Engaging laboratory software, Arranging instruments etc.	Mrs. R. B. Patil

Electronics & Telecommunication Engineering Department of SSBT's College of Engineering and Technology, Jalgaon, Maharashtra, have organized this AICTE-ISTE sponsored online Induction/Refresher Programme Phase-II between 7th to 12th Decmber, 2020.

The main objective of this program was to update the faculty members, industry persons and research scholars about the use of Machine Learning and Pattern Recognition applications. The program aims to address key issues such as designing, modeling, implementation, analysis and study of associated Machine Learning and Pattern. The goal of the study is to come up with, or infer, an approximate mapping function that can be applied to one or more input variables, and produce an output variable or result. The training process involves taking a supervised training data set with non features and a label. We know Artificial Intelligence and Machine Learning is the most growing and popular field in every branch of Engineering. Participants, who have joined this STTP from different states, such as Uttar Pradesh, West Bengal, Andhra Pradesh, Karnataka, Orissa, Madhya Pradesh, Chhattisgarh, Rajasthan, Gujarat, Himachal Pradesh, Haryana, New Delhi, Goa and of course Maharashtra state.

**All sessions were conducted by eminent speakers in the research, from all over India:**

The resource persons for Phase II:

Sr No	Topic	Resource person	Affiliation
1	Introduction to Web Scraping	Umang Kejerwal	Director Aptronix Tech. Noida New Delhi
2	Data Science Fundamentals	Bipul Kumar Shahi	Senior AI and Blockchain Consultant, AICouncil
3	Supervised Learning - Classification	Bipul Kumar Shahi	Senior AI and Blockchain Consultant, AICouncil
4	Natural Language Processing	Umang Kejerwal	Director Aptronix Tech. Noida New Delhi
5	Supervised Learning – Regression	Bipul Kumar Shahi	Senior AI and Blockchain Consultant, AI Council
6	Unsupervised Learning - Clustering	Bipul Kumar Shahi	Senior AI and Blockchain Consultant, AI Council
7	Image Processing (Open CV) and Face Detection	Umang Kejerwal	Director Aptronix Tech. Noida New Delhi
8	Generative Adversarial Networks and its Applications	Dr. M. P. Singh,	National Institute of Technology Patna Patna, Bihar (800005), India Phone: +91-0612-237 1715 / 237 2715 FAX : +91-0612-2670631 , 0612-2660480
9	Unsupervised Learning - Dimensionality Reduction	Bipul Kumar Shahi	Senior AI and Blockchain Consultant, AI Council
10	Artificial Neural Networks (ANN)	Umang Kejerwal	Director Aptronix Tech. Noida New Delhi

	Artificial Intelligence		
11	Engineering Mind To Manage Challenges Art of Living FIT INDIA Movement	Er. E. V. Swaminathan	E V SWAMINATHAN , TALIPARAMBA , KANNUR , KERALA 09082263982
12	VGG 16 model of neural network for complex image and pattern recognition	Bipul Kumar Shahi	Senior AI and Blockchain Consultant, AI Council
13	Convolutional Neural Networks (CNN)	Umang Kejerwal	Director Apptronix Tech. Noida New Delhi
14	Machine learning model deployment using pickle and Flask server	Bipul Kumar Shahi	Senior AI and Blockchain Consultant, AI Council
15	Ensemble Learning	Rohan Patil	Data Scientist GE Healthcare, JFWTC Bangalore 9405442469 ROHAN.PATIL@ge.com
16	How Deep Learning Works - A Deep Drive Session-1 (Theory + Hands On)	Rohan Patil	Data Scientist GE Healthcare, JFWTC Bangalore 9405442469 ROHAN.PATIL@ge.com
17	How Deep Learning Works - A Deep Drive Session-2 (Theory + Hands On)	Rohan Patil	Data Scientist GE Healthcare, JFWTC Bangalore 9405442469 ROHAN.PATIL@ge.com

All practical sessions were conducted by the team of Apptronix Tech. Noida, New Delhi. Apptronix Tech. is working in the field of Machine Learning , Artificial Intelligence , Pattern Recognition, embedded system development and custom industrial automation and have a training center in embedded system, industrial instrumentation, automations, and developing educational trainers for academic institutes and industrial solution. Mr. Umang Kejerwal is the Director-Technical and Mr. Bipul Kumar Shahi is Training coordinator at Apptronix Tech. Noida.

Phase-II of AICTE-ISTE sponsored online Refresher / Induction Program on “Machine Learning and Pattern Recognition” have been completed successfully.

Thank you.



**Dr. P. H. Zope**  
Coordinator, AICTE-ISTE Sponsored  
Online Refresher / Induction Program



**Dr. K. S. Wani**  
Principal

## ***SSBT's College of Engineering & Technology, Bambhori, Jalgaon***

Date: 05-01-2021

### **Completion report on AICTE-ISTE sponsored online Refresher / Induction Program on “Machine Learning and Pattern Recognition” (Phase-III).**

AICTE had sanctioned the grant of Rs. 300000/- to Dr. Pankaj H. Zope, Assistant Professor, Electronics and Telecommunication Department for conduct of Refresher / Induction Program on “Machine Learning and Pattern Recognition” on March 11, 2020 with AICTE Sanctioned letter no. ISTE/AICTE-ISTE FDP-1-3508374205/2018-19, dated 11/03/2020. The permission was given to conduct it in physical mode. But due to pandemic, the COVID-19, most of the Institutes were facing difficulties in organization and conduct STTPs. Then AICTE-ISTE sent letter to conduct the program through online mode and institute has to conduct three separate one week online program. The total budget sanctioned for online program is Rs.93, 000/- for one week.

Accordingly institute has planned and AICTE-ISTE given sanction to conduct three Refresher / Induction Program on following dates.

Phase I – 2nd to 7th November, 2020

(ISTE/AICTE-ISTE Induction/Refresher Programme/2018-19 October 16, 2020)

Phase II – 7th to 12th December, 2020

(ISTE/AICTE-ISTE Induction/Refresher Programme/2018-19 October 9, 2020)

Phase III – 21st to 26th December 2020

(ISTE/AICTE-ISTE Induction/Refresher Programme/2018-19 October 16, 2020)

Following working committee with Roles and Responsibilities are formed for smooth conduction of online program

Sr. nos.	Work	Roles and Responsibilities	Faculty Members
1	Technical	Computer, Internet and hardware etc.	Mr. Satpal Rajput
2	Invitation Letter	Prepare Invitation Letter and regular follow-up with speakers with session.	Mr. S. P. Ramteke
3	Finance	Maintaining the details of expenditure and invoice/ Vouchers, News Preparation etc.	Mr. A. H. Karode
4	Session Communication Mentor	Daily Session organization, Guest and Topic Introduction, Follow up of feedback and attendance link	Dr. P. V. Thakre Mr. N. M. Kazi Mr. A. C. Wani
5	Designing and Printing	Designing & Printing Brochure, Certificates, banners, Setting of feedback, attendance. Organizing session	Mr. Dhanesh Patil Mr. Nilesh Mahajan Mr. S. K. Khode
6	Laboratory Attendant	Engaging laboratory software, Arranging instruments etc.	Mrs. R. B. Patil

Electronics & Telecommunication Engineering Department of SSBT's College of Engineering and Technology, Jalgaon, Maharashtra, have organized this AICTE-ISTE sponsored online Induction/Refresher Programme Phase-III between 21st to 26th December, 2020.

The main objective of this program was to update the faculty members, industry persons and research scholars about the use of Machine Learning and Pattern Recognition applications. The program aims to address key issues such as designing, modeling, implementation, analysis and study of associated Machine Learning and Pattern. The goal of the study is to come up with, or infer, an approximate mapping function that can be applied to one or more input variables, and produce an output variable or result. The training process involves taking a supervised training data set with non features and a label. We know Artificial Intelligence and Machine Learning is the most growing and popular field in every branch of Engineering. Participants, who have joined this STTP from different states, such as Uttar Pradesh, West Bengal, Andhra Pradesh, Karnataka, Orissa, Madhya Pradesh, Chhattisgarh, Rajasthan, Gujarat, Himachal Pradesh, Haryana, New Delhi, Goa and of course Maharashtra state.

**All sessions were conducted by eminent speakers in the research, from all over India:**

The resource persons for Phase III:

Sr No	Topic	Resource person	Affiliation
1	Introduction to Web Scraping	Umang Kejerwal	Director Apptronix Tech. Noida New Delhi
2	Machine Learning and Pattern Recognition	Professor(Dr.) Ratnadeep Raghunathrao Deshmukh	Dr. BAM University Aurangabad
3	Data Science Fundamentals	Bipul Kumar Shahi	Senior AI and Blockchain Consultant, AI Council
4	Supervised Learning - Classification	Bipul Kumar Shahi	Senior AI and Blockchain Consultant, AI Council
5	Natural Language Processing	Umang Kejerwal	Director Apptronix Tech. Noida New Delhi
6	Supervised Learning – Regression	Bipul Kumar Shahi	Senior AI and Blockchain Consultant, AI Council
7	Unsupervised Learning - Clustering	Bipul Kumar Shahi	Senior AI and Blockchain Consultant, AI Council
8	Image Processing (Open CV) and Face Detection	Umang Kejerwal	Director Apptronix Tech. Noida New Delhi
9	Machine Learning and AI for application in Language , Vision and Control	Professor MPS. Chawala SGSITS Indore	Shri Govindram Seksaria Institute of Technology and Science Indore, Madhya Pradesh 452003
10	Unsupervised Learning - Dimensionality Reduction	Bipul Kumar Shahi	Senior AI and Blockchain Consultant, AI Council
11	Artificial Neural Networks (ANN)	Umang Kejerwal	Director Apptronix Tech. Noida New Delhi

	Artificial Intelligence		
12	Engineering Mind To Manage Challenges Art of Living FIT INDIA Movement	Er. E. V. Swaminathan	E V SWAMINATHAN , TALIPARAMBA , KANNUR , KERALA
13	Introduction to deep learning. Shallow neural networks	Dr. Chandrajit Pal	AI Research Engineer at Redpine Signals Inc, Hyderabad
14	Convolutional Neural Networks (CNN)	Umang Kejerwal	Director Apptronix Tech. Noida New Delhi
15	Deep Neural Networks Convolutional neural networks	Dr. Chandrajit Pal	AI Research Engineer at Redpine Signals Inc, Hyderabad
16	Pattern Recognition in Medical Images	Dr. Ravindra Purwar	Indraprastha University, New Delhi
17	Block Chain	Dr Chirag N Modi	Assistant Professor NIT Goa

All practical sessions were conducted by the team of Apptronix Tech. Noida, New Delhi. Apptronix Tech. is working in the field of Machine Learning, Artificial Intelligence, Pattern Recognition, embedded system development and custom industrial automation and have a training center in embedded system, industrial instrumentation, automations, and developing educational trainers for academic institutes and industrial solution. Mr. Umang Kejerwal is the Director-Technical and Mr. Bipul Kumar Shahi is Training coordinator at Apptronix Tech. Noida.

Phase-III of AICTE-ISTE sponsored online Refresher / Induction Program on “Machine Learning and Pattern Recognition” have been completed successfully.

Thank you.



**Dr. P. H. Zope**  
Coordinator, AICTE-ISTE Sponsored  
Online Refresher / Induction Program



**Dr. K. S. Wani**  
Principal

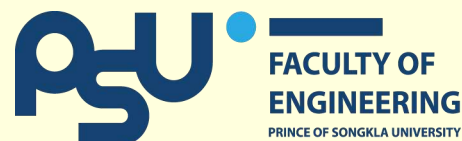




Shram Sadhana Bombay Trust's  
**COLLEGE OF ENGINEERING & TECHNOLOGY,**  
Included under section 2(f) and 12(B) of the UGC Act, 1956  
Grade B++ (2.91) NAAC Accredited

**International Conference on Global Trends in  
Engineering and Technology (Online mode)  
(ICGTET - 2020-21)  
29<sup>th</sup> - 30<sup>th</sup> January 2021**

In association with



Jointly organized by  
**Department of Electronics and Telecommunication**  
and  
**Department of Information Technology**

Technically co-sponsored by  
**IETE, Aurangabad Centre**

Knowledge Partner  
**ICT ACADEMY, Chennai**

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Shram Sadhana Bombay Trust's  
**College of Engineering & Technology,**  
Post Box No. 94, Bambhori, Jalgaon  
Maharashtra State, India. PIN 425 001, : +91257-2258393,94 ( Fax :+91257-2258392 )  
E-mail: [info@sscoetjalgaon.ac.in](mailto:info@sscoetjalgaon.ac.in), [sscoetjal@gmail.com](mailto:sscoetjal@gmail.com)  
Web: <http://www.sscoetjalgaon.ac.in/>

## About Conference

Electronics & Telecommunication Engineering has witnessed a drastic change in recent scenario in regards of user demands and interdisciplinary approach of its versatility. The International Conference on Global Trends in Engineering and Technology - 2021 (ICGTET 2020-21) is a golden platform for all the aspirants to share their innovative ideas & related research work in front of the Global fraternity. Some of the most valuable applications of Information Computing refer to the advances in IT shift as the invention possibility frontier of the economy, permitting users of IT to invent highly valuable applications. Computer science and Engineering is providing solutions to every sectors of technological advancement.

The scope of electrical engineering has provided a solid platform for actual design, construction and manufacturing of useful devices and systems which began with the implementation of Michael Faraday's Law of Induction. This law is applicable to the basic principles of the electric generator, electric motor and the transformer. With the advent of the modern age more sophisticated electrical systems has been implemented in residential, industrial and commercial applications. Electrical Engineering also includes electronics, which has itself branched into an even greater number of subcategories, such as radio frequency (RF) systems, telecommunications, remote sensing, signal processing, digital circuits, instrumentation, audio, video and optoelectronics. The aim of this conference is to provide an interdisciplinary forum for engineers, scientists, researchers students and technocrats to discuss and promote research and technology transfer of emerging trends in engineering and technology.

ICGTET provides a dynamic platform for all the stakeholders to cherish their innovative ideas with emphasis on fundamental and applied mathematics and maintain a logical reasoning that would help in converting systems logic and algorithm. It will take place at the North Maharashtra's one of the prestigious engineering institute, Shram Sadhana Bombay Trust's College of Engineering & Technology, Bambhori, Jalgaon (M.S.) India between 29th to 30th Jan. 2021.

## About Us

The College of Engineering and Technology, Bambhori, Jalgaon is governed by Shram Sadhana Bombay Trust (SSBT). The college is established in the year 1983 at the auspicious hands of founder chairperson, Her Excellency Smt. Pratibha D. Patil, the first lady President of India. It has a 25 acre eco-friendly residential campus located at high banks of river Girna and connected with NH 6. The college infrastructure is magnificent and splendid. The college offers eight Under-Graduate Courses, MBA and seven Doctoral Courses in Engineering. The campus has Institute of Pharmacy which offers Bachelors and Diploma in Pharmacy.

The SSBT's College of Engineering and Technology, Bambhori, Jalgaon is a college with long tradition of societal development with technical education, research, consultancy and voluntary services. It has in its honor several certifications as highlighted below:

- The college is accredited by National Assessment and Accreditation Council (NAAC) with CGPA of 2.91 (B++ Grade).
- The College was accredited by National Board of Accreditation, New Delhi for three times.
- It is included in the list of colleges prepared under Section 2(f) and 12(B) of the UGC Act, 1956.
- It has received "Better India Education Award - 2018" as Best Multi-Disciplinary Engineering College in Maharashtra by Today Research & Ratings, New Delhi, India.
- It has received "Brand Excellence in Education" award from MY FM 94.3 of Dainik Bhaskar Group in 2017.
- It has received "Lokmat - Corporate Excellence Award" (2015), for Brand Excellence in Education.
- It has received "Engineering Education Excellence Award-2015", by Indo Global Chamber of Commerce, Industries and Agriculture Pune, for the efforts in promoting Quality Education and implementing the higher standards of Technical Education in the field of Engineering.
- QMS of the College conforms to ISO 9001:2015.
- It has received EEF Award for Excellence, by Engineering Education Foundation, Pune, in 2008-09.

## Call For Papers

Full length original research contributions and review articles not exceeding six pages as per the ICTACT format shall be submitted. The manuscripts should contribute original research ideas, developmental ideas, analysis, findings, results, etc. The manuscript should not have been published in any journals/magazines or conference proceedings and not under review of any of them. Further the manuscript should contain the name of the corresponding author with e-mail id and affiliation of all authors (Maximum Three Authors).

Prospective authors are invited to submit their original research work in the following areas but not limited to:

- Artificial Intelligence (AI)
- Internet of Things (IoT)
- Block Chain
- Robotics and automation
- Quantum Computing
- Data Sciences
- Cyber Security
- 3D Printing and Design
- Virtual Reality (VR) Grid Computing
- Signal Processing
- Pervasive Computing
- Digital Image and Video Processing
- Computer Vision and Image Analysis
- Data Mining and Cloud Computing
- Broad Band Communication
- Computer and Intelligent Communication
- Mobile and Optical Communication
- Wireless Sensor Networks
- Network Security
- Advanced VLSI Systems
- Embedded Wireless Systems
- Feedback Control Systems
- Computer Network and Cryptography
- Smartgrids
- Soft Computing Techniques in Power Systems
- Power Electronics and Energy Efficient Drives
- Renewable Energy
- Instrumentation and Control
- Power Quality Improvement Techniques
- Machine Learning
- Wireless Communication
- Mobile and Optical Networks

### Submission and publication Guidelines

At least one author of accepted paper must register and present the paper at the conference. The best papers selected in the conference by the Judges / Reviewers will be recommended for possible publication in the respective scopes of ICTACT Journals. These papers would be selected for publication after the peer reviewed process by ICT Academy. ICT Academy currently publishes five international journals - ICTACT Journal on Communication Technology, ICTACT Journal on Soft Computing, ICTACT Journal on Image and Video processing, ICTACT Journal on Micro Electronics and ICTACT Journal on Management Studies. **The ICTAT Journals are included under UGC care list-I.** For more details visit [www.ictactjournals.in](http://www.ictactjournals.in)

All accepted papers excluding selected for publications in ICTACT journals will be published in Pratibha: International Journal of Science, Spirituality, Business and Technology (IJSSBT) ISSN No. Print: 2277-7261 Online: 2278-3857.

### For format of the paper visit

[http://ictact.in/Upload/Downloads/PDFs/ICTACT\\_Journal\\_Template.pdf](http://ictact.in/Upload/Downloads/PDFs/ICTACT_Journal_Template.pdf)

### Registration Fees

	Upto 15 <sup>th</sup> Jan. 2021	Late Registration till 25 <sup>th</sup> Jan 2021
IETE Member:	600 Rs.	800 Rs
Authors from Educational Institute	800 Rs.	1000 Rs.
Authors from Industry	1500 Rs.	2000 Rs.
Foreign Authors	100 \$	150 \$

For details please visit: <http://icgtet.ssoetjalgaon.ac.in>

### Important Dates

**December 12<sup>th</sup>, 2020**

Last date for paper submission

**December 20<sup>th</sup>, 2020**

Acceptance notification

**January 15<sup>th</sup>, 2021**

Last date for camera ready copy submission

**January 29<sup>th</sup> - 30<sup>th</sup>, 2021**

Conference date

**Submission should be done using link given below:**

<https://forms.gle/4XemSP3CDWk1haiaA>

## **Inspiration**

Her Excellency Smt. Pratibha Devisingh Patil, First Lady President of India  
Hon. Shri. D. R. Shekhawat, An Eminent Educationist & Founder GB Member

## **Chief Patron**

Hon. Shri. Raosaheb Shekhawat, Chairman, Governing Body

## **Patron**

Dr. K. S. Wani, Principal, SSBT's COET, Jalgaon (M.S.) India  
Dr. S. P. Shekhawat, Vice Principal, SSBT's COET, Jalgaon (M.S.) India

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Dr. Abhay Wagh, Director, DTE, Mumbai	Dr. Anand Nayar, Vietnam
Dr. D. N. Reddy, Malla Reddy University, Hyderabad	Dr. Arkom Palamanit, Thailand
Dr. Ved Vyas Dwivedi, C U Shah University, Gujrat	Prof. Seanjan Pinkanjanarat, Thailand
Dr. B. V. Pawar, Registrar, KBCNMU, Jalgaon	Dr. G. R. Sinha, Myanmar
Dr. Rakesh Saxena, Director, SGSITS, Indore	Dr. Noor Zaman, Malasiya
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Prof. V. R. Diware, Head, Chemical & Biotechnology Dept.  
Prof. Kiran Patil, Head, Applied Science Dept.  
Prof. V. S. Rana, Head, MBA Dept.

## **Contact Us**

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## **Shram Sadhana Bombay Trust's**

### **College of Engineering & Technology,**

Included Under Section 2(f) & 12(B) of the UGC Act, 1956 ISO 9001:2015 Certified  
Post Box No. 94, Bambhori, Jalgaon, Maharashtra State, India. PIN 425 001  
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## Department of Information Technology

SSBT's, College of Engineering & Technology, Bambhori,  
Post Box No. 94, Jalgaon - 425001 (MS)

Year of Establishment: 2001-02  
Email: hodit.ssb@gmail.com  
Web: <http://www.ssoetjalgaon.ac.in>

Ph. No. : (0257) 2258391/93/94/95,  
Ext. No. : 348  
Fax No. : (0257) 2258392

Date: 06/11/2020

To,  
The Principal  
SSBT's COET, Bambhori, Jalgaon

Subject: International Conference 2020-21 (ICGTET 20-21)

Respected Sir

*Approved*  
*6/11/2020*

With year kind permission in this academic year 2020-21, the International Conference is to be organized by Electronics & Telecommunication and Information Technology department. Accordingly we had worked out and submitting the following points for your approval

Sr. No		
1	Title of Conference	International conference on Global Trends in Engineering and Technology ( The Conference is mainly aiming E&TC, IT, Computer and Electrical Branch of Engineering)
2	Technical Sponsorship	IETE, Aurangabad centre, ( The Conference will be organized in association with IETE Aurangabad Centre) we can use Logo of IETE for our Conference.
3	Convener	Dr. S. R. Suralkar (Head of E&TC) Dr. A. K. Bhavsar (Head of IT)
4	Organizing Secretary	Dr. P. V. Thakre ( Professor , E&TC)
5	Joint Secretary	Mr. S. S. Patil (Associate Professor , Computer)
6	Member	Mr. N. M. Kazi(E&TC) Mr. N. Y. Suryawanshi (Computer) Mr. N.P. Jagtap (IT) Mr. Dhanesh Patil (Electrical)
7	Dates	15-16 January 2021
8	Registration fees	Online payment will be through Gateway as it was for last year International conference

Submitting for your kind Consideration and approval.

Thanking You

Yours Sincerely

*06/11/2020*  
Dr. S. R. Suralkar  
Professor & Head (E&TC)

*6/11/2020*  
Dr. Archana K. Bhavsar  
Head (I.T.)

Vision : To develop technocrats as per industry technical needs and social values.

Mission : To provide conducive environment to impart technical knowledge through teaching, self learning and skill development programme to stand out in competition world.



THE INSTITUTION OF ELECTRONICS & TELECOMMUNICATION ENGINEERS  
Aurangabad Centre [M.S.]

Correspondence Address: Dept. of Computer Science & Information Technology,  
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004. Tele/Fax 0240-2403317  
(Office Address: MGM's, J.N.E.C. Campus, CIDCO, Aurangabad.)

Ref: IETE / ABAD-Centre/2020/21

Date: 10/11/2020

EXECUTIVE COMMITTEE

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Mob: 09422207183

COOPTED MEMBERS

Dr. Kiran Choudhari  
Dr. Umesh S. Bhadale  
Dr. Abhilasha D. Mishra  
Mrs. Anjana S. Ghule

To,  
**Dr. S. R. SURALKAR,**  
**H.O.D. (E & TC)**  
SSBT's College of Engineering and Technology, Bambhori, Jalgaon,

**Sub: Regarding Technical Support.**

Sir,  
With reference to the above subject, we are pleased to inform you that, as per discussion in the EC meeting, approval for technical support for the International Conference is granted and also we have forwarded the letter for the financial support to IETE headquarters. Complete technical support from IETE Aurangabad Centre is with you. However only financial decision is pending for approval from headquarters. We wish for grand success and all the best wishes from IETE Aurangabad Centre.

With warm regards,  
**Sudhir Sambrey**  
Chairman,  
IETE Aurangabad Centre

To,  
A.R.,  
for needful.  
21.11.2020

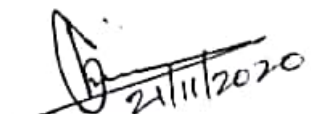
**International Conference on Global Trends in Engineering and Technology  
(ICGTET 2020-21)  
January 29-30, 2021**

**Tentative Budget**

Item head	Estimated Expenses	Remark
Honorarium to Chief Guest and Keynote Speakers	1,20,000	06 Guest for 06 sessions 04 Guest from abroad.
Proceeding and Publication Charges	25000	Publishing papers in ICT Academy and Pratibha Journal.
Payment Gateway Charges	7000	70 papers *100 = 7000
Software App purchasing	5000	
Banner	2000	
Lunch + Breakfast + Tea	5000	For 02 days
Payment gateway charges	6000	Participants 60*100 = 6000
Miscellaneous	10000	
<b>Total Expenses</b>	<b>180000</b>	
Approximate amount against registration of participants	50000	Participants 70 & per paper Rs.800, 70*800 = 56000 (Approx 50000 with IETE concession)
From College	130000	

  
21/11/2020  
Dr. P. V. Thakre

Organizing Secretary

  
21/11/2020  
Dr. S. R. Suralkar

Convener



*Shram Sadhana Bombay Trust's*  
**COLLEGE OF ENGINEERING AND TECHNOLOGY**  
BAMBHORI, POST BOX NO. 94, JALGAON – 425001 (M.S.)  
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**Grade B++ (2.91) NAAC Accredited**

Website- [www.sscoetjalgaon.ac.in](http://www.sscoetjalgaon.ac.in)

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Principal: Dr. K.S.Wani

M. Tech., DBM, Ph.D.

Phone No. (0257) 2258393

Fax No. (0257) 2258392

Ref. no. COE/I.C./685/11/20

Date: 09/11/2020

To

Dr. Tanit Chalermyanont  
Dean of Faculty of Engineering  
Prince of Songkla University  
Songkhla, Thailand

Dear Sir

Greetings from SSBT's College of Engineering and Technology, Jalgaon, India!

I hope you are fine in such a difficult situation of COVID-19 pandemic.

SSBT's College of Engineering and Technology, Jalgaon, India is organizing online International Conference on Global Trends in Engineering and Technology 2020-21 (ICGTET 2020-21) on 15<sup>th</sup> & 16<sup>th</sup> January, 2021 (Tentatively). This conference will be online only.

We have already signed MoU for sharing academic activities. Under this MoU, we wish to invite your university to be a part of this conference as co-organizer.

Kindly consider our invitation and give your consent for the same.

The details of the International Conference will be shared with you after getting your consent.

Thanking you.

With regards.



*K.S.Wani*  
9-11-2020

Dr. K. S. Wani  
Principal  
**PRINCIPAL**  
SSBT's College of Engineering & Technology  
Bambhori, Jalgaon-425001(M.S.)



Prashant Thakre &lt;pvthakre2011@gmail.com&gt;

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## Collaborating Conference with ICTACT Journals -reg

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**ictacademy.journal** <ictacademy.journal@ictacademy.in>  
To: Prashant Thakre <pvthakre2011@gmail.com>

Wed, Dec 2, 2020 at 3:41 PM

Dear **Dr. Prashant V. Thakre**,

Greetings!

We thank you for your interests in collaborating with us for possible publication of the best selected articles from the Conference “**International Conference on Global Trends in Engineering and Technology**” scheduled on **29-30 January 2021** organized by **SSBT's College of Engineering and Technology**.

We have scrutinized the Application Form and would like to inform that we agree for the Conference collaboration and note that the best selected articles which will be recommended to us must not be shared with other Journal/conference/proceedings (due to copyright related issues). Also we expect to receive the best selected articles soon after successful completion of the conference.

We look forward for the Conference and wish the best of success to the conference.

Regards

ICTACT Journals Section

[www.ictactjournals.in](http://www.ictactjournals.in)

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**From:** Prashant Thakre [mailto:[pvthakre2011@gmail.com](mailto:pvthakre2011@gmail.com)]  
**Sent:** Tuesday, November 24, 2020 7:41 PM  
**To:** ictacademy.journal  
**Subject:** Re: Collaborating Conference with ICTACT Journals -reg

Dear Sir/Madam

12/2/2020

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Email: [ssoetjal@gmail.com](mailto:ssoetjal@gmail.com)

Principal: Dr. K.S.Wani

M. Tech., DBM, Ph.D.

Phone No. (0257) 2258393

Fax No. (0257) 2258392

Ref. No.: COET/ I.C. /22/01 /21

Date: 05/01/2021

To,  
Dr. Tanit Chalermynont,  
Dean and Associate Professor,  
Faculty of Engineering,  
Prince of Songkla University,  
Thailand.

Dear Sir

It gives immense pleasure to inform you that, the college is organizing **International Conference on "Global Trends in Engineering and Technology" (ICGTET - 2020-21)** during 29 - 30 January, 2021.

We heartily invite you as a **Chief Guest for the inaugural function and to deliver a keynote speech** in this online conference on 29<sup>th</sup> January 2021 at 10.30 A.M. (IST). Kindly grace the function with online presence.

The brochure of the conference is attached herewith for your kind perusal.

Thanking You.

Yours Sincerely,



*K.S.Wani*  
5.1.2021

Prof. Dr. K.S. Wani

Principal

**PRINCIPAL**

**SSBT's College of Engineering & Technology**  
Bambhori, Jalgaon-425001 (M.S.)

To,  
The Principal,  
SSBT's College of Engineering & Technology,  
Bambhori, Jalgaon (M.S.)

Date: 23/01/2021

Permitted.  
K  
23.1.2021

**Subject:** Permission to organize International Conference on Global Trends in Engineering & Technology (ICGTET 2020-21) in AC Seminar Hall.

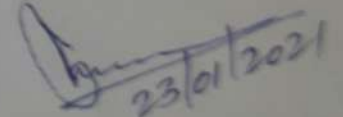
Respected Sir,

As per our discussion, we wish to organize International Conference on Global Trends in Engineering & Technology (ICGTET 2020-21) in AC Seminar Hall on 29<sup>th</sup> and 30<sup>th</sup> January 2021 for its smooth conduction.

It is kindly requested to permit us for the same.

Thanking You.

Yours faithfully

  
23/01/2021

Dr. S.R. Suralkar  
Convener, ICGTET 2020-21

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ET_103	Mrs. Preeti Sahu	preetisahu146@gmail.com	8560841435	Poornima U	PhD Scholar	PhD
ET_104	Atul Hiralal Karode	atulkarode@gmail.com	9850087247	SSBT COE	Assistant Professor	M.E.
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## **10<sup>th</sup> International Conference on ‘Global Trends in Engineering and Technology (ICGTET 2020-21)**

Institute organizes International Conference every year. This year also 10<sup>th</sup> International Conference on ‘Global Trends in Engineering and Technology (ICGTET 2020-21)’ was organized (Online Mode) during 29-30 January 2021. The aim of this conference was to provide an interdisciplinary forum for engineers, scientists, researchers and student technocrats to interact and promote research and technology transfer of advances in Engineering and Technology. The objective of the ICGTET - 2020-21 was to enhance scientific and engineering information exchange among researchers, engineers, students and practitioners working in India and rest of the world. The conference was also aimed at providing free flow of ideas, particularly concerning to recent technological aspects.

The conference was jointly organized by Electronics and Telecommunication Department and Information Technology Department in association with Prince of Sonkla University, Thailand and ICT Academy, Chennai, technically co-sponsored by IETE, Aurangabad Section.

The inauguration was at the hands of Chief guest Dr. Tanit Chalermynont, Dean, Faculty Of Engineering, Prince of Sonkla University, Thailand and Guest of Honor Dr. Apoorva Mishra, Faculty, Computer Science and Engineering Department, Indian Institute of Information Technology, Pune.



**10<sup>th</sup> International Conference on ‘Global Trends in Engineering and Technology (ICGTET 2020-21)**