

## ABOUT AISSM SOCIETY

All India Shri Shivaji Memorial Society was established in 1917 by Rajashri Chhatrapati Shahu Maharaj of Kolhapur with the sole purpose of promoting the noble cause of education. Society runs 21 educational institutions and College of Engineering is one of them.

## ABOUT INSTITUTE

AISSMS College of Engineering, Pune was established in the year 1992. The College is located in the heart of Pune city on a sprawling campus. The College is affiliated to the Savitribai Phule Pune University. Institution runs undergraduate courses in various disciplines namely Chemical, Civil, Computer, Electrical, E&TC, Mechanical, Mechanical Sandwich, Production Sandwich and postgraduate courses with specialization in Chemical, Structures, Computer, Power Electronics and Drives, VLSI, Automotive and Design Engineering & also has research program in Mechanical, Chemical stream. Institute is Accredited by NAAC with A+ Grade.

## ABOUT DEPARTMENT

Department of Mechanical Engineering was established in 1992. The department runs two undergraduate programs viz. Mechanical Engineering, Mechanical Engineering (Sandwich) and two PG programs with Automotive and Design Engineering as specialization. Department also run research Centre leading to PhD Program.

Department is having 37 Teaching Faculty members, Ten faculty members having PhD qualification. Total student strength of 750. The department has well equipped laboratories with high-end software's used in industry. The department organizes training programs/workshops at regular intervals. The department has got funding from various prestigious agencies like AICTE, ISTE, SPPU etc. The department is devoted to educate the highest quality engineering professionals and leaders of tomorrow, utilizing the full potential of each individual student.

## CHIEF-PATRON

**SHRIMANT SHAHU CHHATRAPATI MAHARAJ, KOLHAPUR**  
President, AISSMS, Pune

## PATRON

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Vice -President, AISSMS, Pune

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**Dr D S Bormane**  
Principal, AISSMSCOE, Pune

## CONFERENCE CO-CHAIR

**Dr B D Bachchhav**  
Professor & Head, Mechanical Engineering AISSMS COE, Pune

## CONVENER

**Dr M S Deshmukh**, Associate Professor,  
Department of Mechanical Engineering. AISSMS COE, Pune.  
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## CO-CONVENER

**Dr D Y Dhande**, Associate Professor, Mechanical Engineering, AISSMS COE, Pune.  
[+91-9822699851],  
**Dr M R Phate**, Associate Professor, Mechanical Engineering AISSMS COE, Pune.  
[+91-9850330348],

## ORGANISING COMMITTEE

<b>Dr A V Waghmare</b>	<b>Dr Mrs P S Gajjal</b>	<b>Dr S V Chaitanya</b>
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**AISSMS**  
COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय  
Accredited by NAAC with "A+" Grade



Savitribai Phule Pune University



SPONSORED UNDER QIP

AN INTERNATIONAL CONFERENCE  
ON

**“Mechanical Engineering for  
Sustainable Development-2020”**

FEBRUARY 17 - 18 , 2020

ORGANISED BY

DEPARTMENT OF MECHANICAL ENGINEERING  
All India Shri Shivaji Memorial Society's  
College of Engineering, Pune.  
(Accredited by NAAC with A+ Grade)



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Pune-411 001 Maharashtra, INDIA  
Phone No. +91-20 2605 7660 / 2605 8587  
Website: [www.aissmscoe.com](http://www.aissmscoe.com)

## ABOUT THE CONFERENCE

The Conferences are the right place where researchers assemble together, future ideas are discussed and collaborations in fields of interest are initiated for future

The ICMESD-2020 will provide an exceptional platform for engineers, academicians, scientists, industrial professionals and researchers from over the world to present the result of their research activities in the field of sustainable development for Mechanical Engineering. Sustainable development is a key aspect of the research carried out by many additional groups.

The ICMESD-2020 also aims at encouraging the faculty for engaging in more & more research in particular creating environment, promoting research in every field of academics. The researchers can know about the Future Research trends from the Invited Talks and Keynote Addresses.

## CONFERENCE TRACKS

### Track -1 Machine Design (TR-1)

CAD/CAM/CIM, FEM, Machine Design and Dynamics, Multi-Body Dynamics, Design of Mechanical Systems, Fatigue Fracture & Failure Analysis, Mechanisms, Rotor Dynamics, Vibrations and Control, Product Design and Development

### Track -2 Tribology(TR-2)

Bearing & Gear Tribology, Lubricants & Additives, Wear Mechanisms, Surface Treatment & Coatings, Tribo-Testing, Condition Based Maintenance System, Tribology in Design & Manufacturing, Tribology in Metalworking, Bio Tribology, Nano Tribology, Nuclear Tribology, Space Tribology, Automotive Tribology, Marine Tribology, Tribology in Renewable Energy

### Track -3 Material, Manufacturing and Industrial Engg.(TR-3)

Supply chain, Quality and Information management, Human factor, Biomechanics and Ergonomics, Marketing, Operation research, Layout planning, Reverse Engineering, CAD/CAM/CIM, Safety, Reliability and Risk assessment, Robotics and Automation, Mechatronics, Additive and Green Manufacturing, Materials Forming & Machining, Micro & Nano Machining Technology, Laser Processing Technology, Bionic Mechanisms and Bio-manufacturing, Virtual Manufacturing and Network Manufacturing, Sustainable Manufacturing Technologies, Production and Operation Management

### Track -4 Thermal Engineering (TR-4)

Computational Fluid dynamics, Automotive and Alternate fuels, Cryogenics technologies, Cold Chain Technologies, Heat - Mass Transfer, Thermo-fluids, Energy Conversion Systems, Renewable Energy Technologies, Energy and Environment, Air Conditioning and Refrigeration, Numerical Methods in Fluid Flow and Heat Transfer, Transport Phenomena in Porous Media, Engine Systems: Design and Simulation, Active and Passive Safety, Engine Thermodynamics, Gas Turbines and Gas Dynamics, IC Engine & Engine Technologies

## CALL OF PAPERS

Research papers are invited through online portal on or before **JANUARY 24<sup>th</sup>, 2020**. The Conference Committee will make final decisions on the acceptance of paper. Registration is mandatory for at least one author of an accepted paper to appear in the Proceedings and Journal Publications.

## NOTIFICATION OF ACCEPTANCE

Authors of the shortlisted papers will be notified about the acceptance of their paper submission by **February 03, 2020**.

Authors of accepted papers will be notified about schedule of the conference paper presentation by **February 16, 2020** at the latest.

At least one author per accepted paper must be registered no later than **February 05, 2020** otherwise convenor reserves the right to remove their paper from the international conference.

The official language of all papers and presentation is in English only. The author(s) should clearly mention under which track the paper should be included. The author(s) should adhere to the following while sending the Full Length Paper in MS Word format.

## SPECIFICATIONS OF FULL LENGTH PAPER

- Page limit: Maximum 10 pages double column (Full Paper) - including tables, references etc.
- Line spacing: Single (Justified alignment)
- As per template given below

A separate cover page should be given which would contain the title, authors' name, affiliation, contact and email address etc. Other than cover page nowhere else, the authors' names or identification should get revealed. However, the first page of the main body of the submitted manuscript should begin with the title of the paper only followed by Abstract and subsequent sections. The abstract should not exceed total 250 words and must cover the aspects like purpose, methodology, findings, research implications and value.

Once the full paper is accepted, the authors will be notified and will be required to submit the final camera-ready full paper (incorporating all revisions and changes if any).

## PAPER SUBMISSION LINK

<https://forms.gle/GAU2xF9GvJvJCA3c6>

OR

Scan QR Code to submit paper to ICMESD



## PAPER TEMPLATE LINK

<https://drive.google.com/file/d/1IQs4CAeQuOi4Jhjw7lh9NGoJHkNMkYX/view?ts=5e0b12d9>

Scan QR Code for paper template



## IMPORTANT DATES

Submission of full-length paper	January 24, 2020
Notification of paper acceptance	February 03, 2020
Submission of camera-ready final papers deadline	February 05, 2020

## PUBLICATION OF PAPERS

All the accepted papers and keynote lectures will be published in the International conference souvenir ICMESD-2020 in the form of e-book/hardcopy. Selected high quality full-length papers will be considered for publications in Scopus Indexed, UGC-CARE & google scholar listed Journals based on quality of the paper after peer review process. **Final Decision of publication in Scopus Indexed, UGC- CARE & Google scholar listed Journals will be based on decision taken by editorial board & as per terms and conditions of respective Journals.** It is noted that the papers should be free from any sort of plagiarism.

### Presentation of Paper-

- All accepted Papers should be presented in the conference through power point presentation only.
- Foreign participants can give their PPT presentation through Skype with prior intimation. (Skype ID- [msdngp@hotmail.com](mailto:msdngp@hotmail.com))

## REGISTRATION DETAILS

Industry Indian Delegates	INR 3500	Industry Foreign Delegates	USD 125
Academic Indian Delegates	INR 2500	Academic Foreign Delegates	USD 100

Note:-→ The registration fee per person includes the conference kit, working lunch and high tea.

## ACCOMODATION

Assistance for Accommodation will be provided with prior intimation only.

## PAYMENT MODE (Net Banking)

Account Name: Principal, AISSMS College of Engineering, Pune	Bank IFSC Code: BARB0SHIPOO (Fifth place is Zero)
Bank & Branch Name: BANK OF BARODA, SHIVAJINAGAR-411005 PUNE	Bank MICR Code: 411012011 Branch Code: SHIPOO
Bank Account Number: 04510100017246	Type of account: SAVING