

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 19 educational institutions and College of Engineering is one of them.

AISSMS COLLEGE OF ENGINEERING

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 autonomous and affiliated with the Savitribai Phule Pune University. The institution runs undergraduate courses in various disciplines, namely AI & ML, Chemical, Civil, Computer, Electrical, E&TC, Mechanical, Mechanical Sandwich, Robotics & Automation and Master of Engineering (ME) in seven engineering streams and Research Centers in Chemical, Civil, Computer, Electrical, and Mechanical Engineering. The institute is accredited by NAAC with A+ Grade and NBA in 7 programmes.

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SHORT-TERM TRAINING PROGRAMME

Fluid power systems play a vital role in modern industries such as manufacturing, automation, defence, and heavy machinery. However, significant energy losses occur due to inefficiencies in system design, operation, and maintenance. With growing emphasis on sustainability and energy conservation, it is essential to develop expertise in energy-efficient and environmentally responsible fluid power technologies.

This Short-Term Training Programme (STTP) aims to provide participants with comprehensive knowledge of energy-efficient hydraulic and pneumatic systems, sustainable fluid power technologies, and modern industrial practices. The program will cover system design, energy loss analysis, optimization methods, condition monitoring, predictive maintenance, and industrial case studies.

The STTP will be conducted with academic and industrial collaboration from Fluid Power Society of India, Research and Development Establishment (Engineers), Dighi, and Danfoss Innovation Centre of India, providing participants with exposure to real-world industrial challenges and advanced technologies.

OBJECTIVES

- To understand the fundamentals of energy-efficient hydraulic and pneumatic systems.
- To identify and analyze energy losses in fluid power systems.
- To explore sustainable and eco-friendly fluid power technologies.
- To develop skills in design and optimization of efficient systems.
- To introduce condition monitoring and predictive maintenance concepts.
- To expose participants to industrial case studies and best practices.

ADVISORY COMMITTEE

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AISSMS COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
An Autonomous Institute Affiliated to Savitribai Phule Pune University
Approved by AICTE, New Delhi and Recognised by Govt. of Maharashtra
Accredited by NAAC with "A+" Grade | NBA - 7 UG Programmes

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One Week Online ISTE Sponsored SHORT-TERM TRAINING PROGRAMME

on Energy-Efficient Fluid Power Systems for Industrial Applications (September 7-12, 2026)



ORGANISED BY

Department of Mechanical Engineering
and
Department of Robotics and Automation



SUPPORTED BY



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REGISTRATION

REGISTRATION LINK

<https://forms.gle/ftr4L1V5umWWTsrw9>

Rs. 250/- for ISTE Members

(ISTE Certificate)

Rs. 150/- for Non-ISTE Members

(Institute Certificate)



	9:30 AM - 11:30 AM	11:30 AM - 1:30 PM	2:30 PM - 3:30 PM	3:30 PM - 4:30 PM
Day 1: 07 Sept 2026	Inauguration & Keynote Address Mr. Kishore Arora Founder Secretary, Fluid Power Society of India Pune Chapter	Components of Power Conversion Mr. Krishna Kulkarni Director, Fluidtechnik Solutions	Testing of Components and Pump Performance Dr. A V Waghmare AISSMS College of Engineering Pune	Quiz
Day 2: 08 Sept 2026	Controls in Fluid Power Systems Dr. Prabhat Ranjan Associate Professor, Smt. Kashibai Navale College of Engineering, Pune	Sustainable & Energy-Efficient Media Mr. Anjeeve George Lead Engineer, Danfoss Technologies Pvt Ltd	Development of Circuits using Softwares Mr. Venkat Prasad Senior Customer Support Engineer - Janatics	Quiz
Day 3: 09 Sept 2026	Energy Efficient Fluid Power Systems Mr. K.Murali AGM - Application Engineering, Danfoss Power Solutions	Sustainable Fluid Power Technologies Dr. C S Choudhari Associate Professor, AISSMS College of Engineering, Pune	Fluid Power Lab Virtual Tour Mr. Priyanshu Kumar IIT Dhanbad	Quiz
Day 4: 10 Sept 2026	Condition Monitoring Techniques Dr. Abhishek D Patange , Data Science and AI Specialist ABB Global Industries and Services, Bengaluru	Fluid Power Challenges in Defence Applications Mr. Abhishek Kanaskar Scientist, Defence Research and Development Organisation	IoT Base Experiments Mr. Ashwin Gadgil Hem electronics	Quiz
Day 5: 11 Sept 2026	Digital Twins, ML and AI Technologies in Hydraulics Mr. Ritesh Fating Engineering Manager - Digital Prototyping and Twins, Danfoss Power Solutions	Industrial Case Studies & Future Trends Mr. Yuvaraj Khapne Engineering Manager - Hydraulic System Solutions & Airflex, Danfoss India Technology Centre	System Design using Manufacturer Catalogue Ms. Shruti Panchalwar Sales & Application, Parker Hannifin	Quiz
Day 6: 12 Sept 2026	Recent advancement of heavy machinery using power hydraulics Dr. Jayanta Das , Associate Professor Indian Institute of Technology (ISM), Dhanbad	Participant Feedback & Valedictory Session	Final Assessment	