

AISSMS

ADDING VALUE TO ENGINEERING An Autonomous Institute Affiliated to Savitribai Phule Pune University Approved by AICTE, New Delhi and Recognised by Govt. of Maharashtra Accredited by NAAC (A+ Grade) & NBA (5 UG Programs)



ACADEMIC YEAR 2024-25(SEM 1)

INSTRUMENTATION DEPARTMENT

CONTENT:

Vision Mission -

Program Outcome-

Achievement-

Topper's List-

Placement-

MOU's-

Activity-

Faculty Participation-

Industrial Visit-

NIRANTAR



Vision

То be recognized as one of the best instrumentation engineering program by developing globally component engineers, researchers and entrepreneurs to solve real life problems through skill-based education.

Mission

M1-To promote learning for skill-based education and **emerging technologies** to make students **globally component**.

M2-To create conductive environment for research, innovations and entrepreneurship.

PROGRAM EDUCATIONAL OBJECTIVES:

- PEO1- Solve real life problems by applying the knowledge of instrumentation technology.
 PEO2-Excel in diverse career
- paths like higher studies, research and entrepreneurship.
- PEO3-Contribute as a socially responsible citizen for the development of nation.

PROGRAM SPECIFIC OBJECTIVES:

PSO1-Graduates will be able to apply their knowledge of measurement and control to solve the problems related to environment,safety,health and

- agriculture sector.
 PEO2-Graduates will be to demonstrate their skills on programmable logic controller,lab-view,distributed
- control system and internet of things.

PROGRAM OUTCOMES:

ENGINEERING GRADUATES WILL BE ABLE TO

- 1. Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.[Engineering Knowledge].
- 2. Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.[Problem analysis].
- Design solutions for complex engineering problems and design system components of processes that meet the specified needs with appropriate considerations.[Design/development of solutions].
- 4. Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.[Conduct investigations of complex problems].
- 5. Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations,[Modern tool usage].
- 6. Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.[The engineer and society].
- Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.[Environment and sustainability].
- 8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.[Ethics].
- Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings. [Individual and team work].
- 10. Communicate effectively on complex engineering activities with the engineering community and with society or large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations and give receive clear instructions.[Communication].
- 11. Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.[Project management and finance].
- 12. Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.[Life-long learning].

ACHIEVEMENTS



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SAGAR SATYAWAN JAGTAP

for successfully completing the course

EXCELing with Mathematical Modeling

%

with a consolidated score of



Total number of candidates certified in this course: 76

Prof. Kaushik Ghosh, Professor(Chemistry) Coordinator CEC



Indian Institute of Technology Roorkee

Roll No: NPTEL24MA62S552003523

Jul-Oct 2024

(12 week course)



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Prof. Ranjana Pathania,

Professor (BSBE) Coordinator (NPTEL)

To verify the certificate

No. of credits recommended: 3 or 4





OUR TOPPER'S 2023-24

BE

- Fulfagar Akshat Anil 8.93
- Inamdar Kazim Ahemed
 Mohammad Taheer 8.36
- Bilambe Sidharth Mahadev –
 8.28
- Mane Kaustubh Ajay 8.28

TE

- Thorat Siddant Prakash 9.29
- Divya Ravindra Walke 9.14
- Abhijeet Bapurao Deokar –

8.69

SE

- Thorat Vaishnavi Shankarrao 8.7
- Mahajan Akanksha Somnath -8.69
- Khalangre Shantanu Ram 8.48

PLACEMENTS 2023-24

Sr.No.	Name Of Student	Branch	Name of Company	Year of
				Passing
1	Shruti Patil	BE Instrumentation	Schneider Electric	2024-25
2	Vedant Rathod	BE Instrumentation	Schneider Electric	2024-25
3	Divya Walke	BE Instrumentation	Honeywell	2024-25
4	Sukhada Jadhav	BE Instrumentation	Emerson	2024-25
5	Shruti Dholepatil	BE Instrumentation	Emerson	2024-25
6	Siddhant Thorat	BE Instrumentation	Emerson	2024-25
7	Rijo Daniel	BE Instrumentation	AB PROCESS TECHNOLOGIES	2024-25
8	Suhani Chaudhari	BE Instrumentation	AB PROCESS TECHNOLOGIES	2024-25
9	Madhuri Shivaji Magar	BE Instrumentation	AB PROCESS TECHNOLOGIES	2024-25
10	Omkar Ramdas Kachare	BE Instrumentation	Thermax	2024-25
11	Hardik Kataria	BE Instrumentation	Sap Engineers & Consultants	2024-25

Memorandum of Understanding MOU'S



We are happy to share with you that, the department of Instrumentation AISSMS IOIT Pune, has signed a MoU with Success Engineers Pune. The collaboration would provide internships, technology trainings and placements for students.



It's a great pleasure to share with you that, The department of Instrumentation AISSMS IOIT Pune-01, has signed a MoU with Jalgi Technologies Pvt Ltd company Pune. The collaboration would provide internships, technology trainings and placements for students.

ACTIVITY

Workshop



AISSMS Institute of Information Technology, Pune -Innovations, Incubation – Entrepreneurship Development Cell in association with IIC and ISTE-ISA Students Chapter in association with Instrumentation Engineering Department for IPR Awareness, Scope & opportunities of Entrepreneurship, Innovation, Copyright and Internal Trade, National Intellectual Property Right organized a expert session on , "Intellectual Property Right and Patent ", conducted by Advocate Pallavi Rahul Kadam, IP Adventure LLP , Designated Partner Pune on dated 19th July 2024 at time 1:15 to 2:15 PM. The session benefited TY &BE students and faculty members. This expert session was organised by Mr.P.U.Palkar

Faculty Development Program









Attended a one week Faculty Development Program at Beckhoff from 18/11/2024 to 22/11/2024, focusing on automation and programming with TwinCAT3 software. Participants included Dr. A. A. Shinde, Dr. V.V Kale, Mrs. S. V. Kulkarni, Mr. S. R. Kale and Mr. P.U Palkar



AISSMS IOIT, Pune Department of Instrumentation Engineering, TechnoHealth Club in association with IEEE AISSMS IOIT Student Branch Organized TechHealth Instruments Exhibition and Biomedical device demonstration of Pulse oxymeter and Electronic Stethoscope /Phonocardiogram. This session was attended by FY B. Tech students during the Induction Program on dated 06/09/2024. The activity was coordinated by faculty coordinator Mrs. S. V. Kulkarni(TechnoHealth Club, Faculty in-charge) and Mr .M. S. Chikankar(Lab Assistant) and students from TY B.Tech Instrumentation Engineering.

FACULTY FDP

Sr.	Name Of Faculty	Title Of FDP	No Of Days
No			
1	Dr. A. A. Shinde	Generative AI	6
2	Dr. B. N. Mohapatra	Generative AI using Chatgpt	7
3	Dr. B. N. Mohapatra	Data Analytics using power BI	7
4	Dr.V.V.Kale	Advanced Pedagogy	12
5		Effective Engineering Teaching	
	Mrs C.D.Rananaware	In Practice	4 Week
6	Mrs.S.V.Kulkarni	Roadmap for Patent Creation	8 week
7	Mr.S.S.Jagtap	Data Analytics using power BI	7
8		Foundation of Cloud IoT Edge	
	Mr.S.S.Jagtap	ML	8 week
9	Dr.V.V.Kale	Data analytics using power BI	5 days
10	Dr.V.V.Kale	Cloud Computing and HPC	5 days
11	Dr.V.V.Kale	Industrial Instrumentation	5 days
12		Fundamentals of Machine	
	Dr.V.V.Kale	Learning	5 days
13	Dr.V.V.Kale	Industrial robots	5 days
14	Mrs.S.V.Kulkarni	Innovations by Design	
15		Research Paper writing & IP	
	Mrs.S.V.Kulkarni	Rights	4 Week
16		Maharashatra State Development	
		Academy in collabration with	
	Mrs.S.V.Kulkarni	Rotary International discrict 3131	3 days
17		National Institute of Technical	
		Teachers Training and Research	
	Mrs.S.V.Kulkarni	(NITTTR)Kolkatta	5 days
18			
		Maharashatra State Development	
		Academy in collabration with	
	Mr. H. P. chaudhari	Rotary International discrict 3131	5 days

Industrial Visits

Program Level: College

Program Type: River cleaning

Duration in time: 1:15 pm -4pm

Topic: environmental Conservation River cleaning Drive

Organized by: NSS Unit

Venue: Sangam wadi Ghat

Objective: To promote environmental conservation and create awareness among students and the community about maintaining clean and pollution-free water bodies.

Abstract of contents covered:

The river cleaning drive focused on removing waste from the Sangamwadi Ghat and spreading awareness about water conservation. Volunteers collected over 50 kg of waste, ensuring proper segregation and disposal, while educating locals on eco-friendly practices.

Glimpses:





AISSMS IOIT Department of Instrumentation Engineering faculty and students visited the exhibition MSEDCL Rastapeth. thank you Dr.Santosh Patni sir. AISSMS Institute of Information Technology, Pune -Department of Instrumentation Engineering organized Industrial Visit at Pune Techtrol Pvt Ltd. Pune on dated 15/7/2024 for S.Y. B.Tech Instrumentation Engineering students. During visit to Pune Techtrol Pvt. Ltd, students gained insights into the Temperature sensors, ultrasonic transducers, level gauge for liquids, laser transmitters level transmitters for liquids, calibration process, raw material purchase and testing system etc. Visit organized by Mrs. S. V. Kulkarni(Course Teacher-Sensors and Transducer)along with Dr. V. V. Kale (Course Teacher-Analog & Digital Techniques)and Mrs. G. M. Khadtare(Lab Assistant -Sensors & Transducer laboratory)under the guidance of Dr. A. A. Shinde(Head of Department-Department of Instrumentation Engineering) & Dr. P. B. Mane (Principal-AISSMS



Photo Gallery











