



AISSMS

INSTITUTE OF INFORMATION TECHNOLOGY

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)



INSTRUMENTATION DEPARTMENT

ACADEMIC YEAR 2023-23(SEM 1)

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NIRANTAR



Vision

To 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 conducive 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].
3. 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].
7. 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].
9. 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

Achievement of receiving a Patent grant



AISSMS
INSTITUTE OF INFORMATION TECHNOLOGY
(IOIT)

Heartiest Congratulations

Mrs. Sheetal Vijay Kulkarni
Applicant, Faculty-Department of Instrumentation Engineering

Dr. Vandana Vishwanathrao Kale
Inventor, Faculty-Department of Instrumentation Engineering

Ms. Rutuja Darwade
Inventor, Student-Dept. of Instrumentation Engineering

On receiving a **Patent Grant**
for an invention entitled
HYBRID POWERED ROUTER
By The Patent Office,
Government Of India

*May your educational accomplishments continue to motivate
and empower others as you flourish in your scholarly endeavors.*

Regards,
Dr. P. B. Mane
Principal, AISSMS IOIT

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Mrs. Sheetal Vijay Kulkarni (Applicant, Faculty – Department of Instrumentation Engineering), Dr. Vandana Vishwanathrao Kale (Inventor, Faculty – Department of Instrumentation Engineering), and Ms. Rutuja Darwade (Inventor, Student – Department of Instrumentation Engineering) on the achievement of receiving a Patent grant for their invention, "HYBRID POWERED ROUTER," from The Patent Office, Govt. of India.

3rd Prize in “The IDEATION Challenge Competition” STEM 2023



AISSMS
INSTITUTE OF INFORMATION TECHNOLOGY
(IOIT)

Heartiest Congratulations

**Swarda Narote - SY B. Tech | Suraj Kulkarni - SY B. Tech
Bhagyashree Kadam - SY B. Tech |
Shekhar Khapte - SY B. Tech | Pradyumna Sankpal - SY B. Tech**

On winning the 3rd Prize in
The IDEATION Challenge Competition STEM 2023
organized by BOSTON Scientific Technology & Engineering Services Pvt. Ltd., Pune
dated on 16th October 2023

Under the guidance of
Mrs. Sheetal Vijay Kulkarni (Asst. Prof. Instrumentation Engineering)

May your ongoing brilliance bring you endless accolades

Regards,
Dr. P. B. Mane
Principal, AISSMS IOIT

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Students won the 3rd Prize in “The IDEATION Challenge Competition” STEM 2023, organized by BOSTON Scientific Technology and Engineering Services Private Limited, Pune on dated 16th October 2023.

ACHIEVEMENTS

Gold Medal in NPTEL Online
Certification Course



The certificate is titled "Elite NPTEL Online Certification" and is funded by the Ministry of Education, Government of India. It is awarded to Sagar Satyawar Jagtap for successfully completing the course "Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning" with a consolidated score of 91%. The certificate includes a table of scores: Online Assignments (23.13/25) and Proctored Exam (67.5/75). It also mentions that 253 candidates were certified in this course. The certificate is signed by Prof. B. V. Ratish Kumar, Chairman of the Centre for Continuing Education at IIT Kanpur, and Prof. Satyaki Roy, NPTEL Coordinator at IIT Kanpur, dated Jul-Oct 2023 (12 week course). The certificate features the IIT Kanpur logo, the NPTEL logo, and the Swayam logo. A QR code is provided for verification.

Online Assignments	23.13/25	Proctored Exam	67.5/75
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Successfully completed the course “Applied Linear Algebra For Singal Processing, Data Analytics and Machine Learning” and won a Gold Medal with 23.13/25 in India.

OUR TOPPER'S 2022-23

BE

- Patil Aakanksha Bajirao-9.2
- Salunke Pooja Mangesh-9.0
- Pawar Rohan Ashok-9.04
-

TE

- Fulfagar Akshat Anil-9.50
- Kadam Shunham Bhaskar-8.65
- Yadav Sanhavi Jaywant-8.43
-

SE

- Thorat Siddhant Prakash-8.27
- Divya Ravindra Walke-7.8
- Kachare Omkar Ramdas-7.7
-

PLACEMENTS 2023-24

- **Siddharth Bilambe – Emerson,
Pune**
- **Shruti Kharade – Emerson,
Pune**

Memorandum of Understanding MOU'S



The Department of instrumentation from AISSMS IOIT PUNE signed the Memorandum of Understanding with SVR Robotics Pune.

The collaboration with SVR Robotics for updating students on latest technologies through workshop and training program. This activity is coordinated by Mrs. Chitrlekha Ranaware under the guidance of HOD Dr. Amita Shinde and Principal Dr. P.B.Mane of AISSMS IOIT PUNE.

ACTIVITY

T & P
Activity



BARCLAYS
Training

ACTIVITY



FACULTY FDP

S r . N o .	Faculty Name	Workshops/Se minars/FDP attended	No. of days
1	Mr.S.R.Garthe	Flourishing of Youth	6 Days
2	Mr.S.S.Jagtap	Applied linear algebra for signal processing, Dat a analytics and machine learning	12 Weeks
3	Dr.V.V.Kale	Industrial Mechatronics	5 Days
4	Dr.V.V.Kale	Introduction to Biostatics	4 Weeks
5	Dr.V.V.Kale	Innovation ans Startup in Higher education Institutes	5 days
6	Dr.V.V.Kale	FDP On Cloud Infrastructure (AWS)	5 Days
7	Mrs. C.D.Rananaware	Project Management : Planning, Execution, Evaluation And Control	8 Weeks
8	Mrs. C.D.Rananaware	FDP On Cloud Infrastructure (AWS)	5 Days
9	Mrs.S.V.Kulkarni	Managing Intellectual Property in Universities	4 Weeks
1 0	Mrs.S.V.Kulkarni	Patent Search for Engineers and Lawyers	8 Weeks
1 1	Mrs.S.V.Kulkarni	Bio Medical Engineering	5 Days

INDUSTRIAL VISIT



An Industrial visit at PROEXCEL SYSTEMS, located at Mahasainik Industrial Estate, Bhosari, Pune - 411026, on 27/09/2023, organized by ISA (International Society of Automation) for students of TE (Third Year) and BE (Final Year) of the Instrumentation Engineering Department.



Company Name - Spandan Scada System



Company Name : Element 14 India Pvt Ltd



Company Name:Endress+Hauser India Pvt Ltd





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INSTRUMENTATION DEPARTMENT

ACADEMIC YEAR 2023-24(SEM 2)

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Industrial Visit–

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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

2nd Prize in Techno-sci 2K24, State level competition and Technical Event



Students won the 2rd Prize in “Techno–sci 2K24, State level competition and Technical Event” STEM 2023, organized by Marathwada Mitra mandal Institute of Technology, Lohagaon Pune , on dated 16th June2024.

OUR TOPPER'S 2022-23

BE

- Patil Aakanksha Bajirao-9.2
- Salunke Pooja Mangesh-9.0
- Pawar Rohan Ashok-9.04
-

TE

- Fulfagar Akshat Anil-9.50
- Kadam Shunham Bhaskar-8.65
- Yadav Sanhavi Jaywant-8.43
-

SE

- Thorat Siddhant Prakash-8.27
- Divya Ravindra Walke-7.8
- Kachare Omkar Ramdas-7.7
-

PLACEMENTS 2023-24

Sr. No	Name of Student	Discipline	Year Of Passing	Name of Employer
1	Siddharth Bilambe	Instrumentation	2023-24	Emerson , Pune
2	Shruti Kharade	Instrumentation	2023-24	Emerson , Pune
3	Dattaram Gawade	Instrumentation	2023-24	SAP Technology , Pune
4	Shubham Kadam	Instrumentation	2023-24	Kirloskar , Pune
5	Mrunali Bajare	Instrumentation	2023-24	Kirloskar , Pune
6	Ketan Kharat	Instrumentation	2023-24	Kimaya Automation , Pvt Ltd. Pune
7	Pratham Nirgunkar	Instrumentation	2023-24	Kimaya Automation , Pvt Ltd. Pune
8	Rohan Jadhav	Instrumentation	2023-24	Reliance Industries Ltd. Pune
9	Kazim Inamdar	Instrumentation	2023-24	Concentrix
10	Ayush Gajanan Ingole	Instrumentation	2023-24	Concentrix
11	Rohit Marekar	Instrumentation	2023-24	Clean Science & Technology Ltd.

Memorandum of Understanding MOU'S



The Department of instrumentation from AISSMS IOIT PUNE signed the Memorandum of Understanding with Kimaya Automation Pune.

The collaboration with Kimaya Automation for updating students on latest technologies through workshop and training program. This activity is coordinated by Mrs. Chitrlekha Rananaware under the guidance of HOD Dr. Amita Shinde and Principal Dr. P.B.Mane of AISSMS IOIT PUNE.

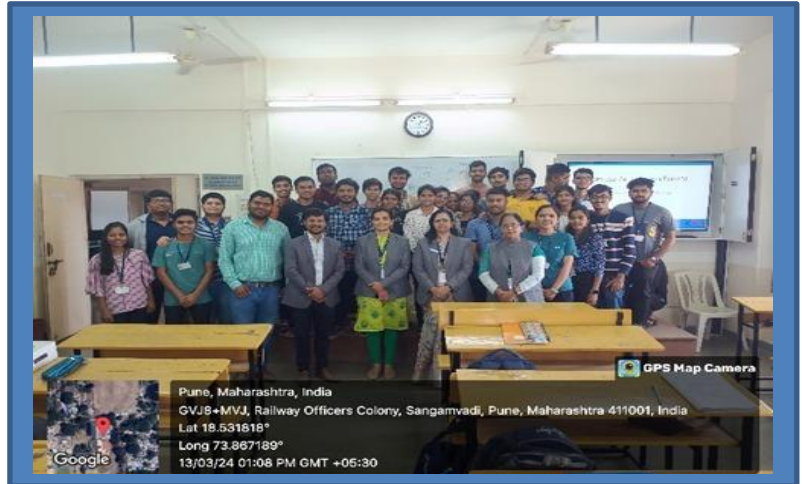


The Department of instrumentation from AISSMS IOIT PUNE signed the Memorandum of Understanding with SAP Technology Pune

The collaboration with SAP Technology Pune for updating Students on latest technologies through workshop and training program. This activity is coordinated by Mrs. Chitralekha Rananaware under the guidance of HOD Dr. Amita Shinde and Principal Dr. P.B.Mane of AISSMS IOIT PUNE.

ACTIVITY

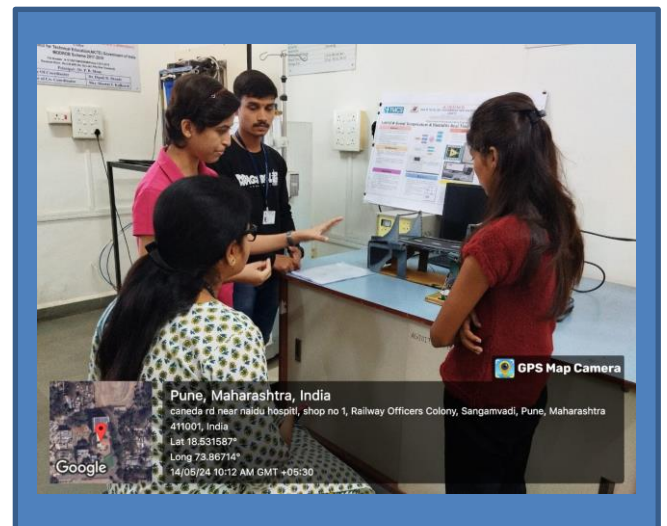
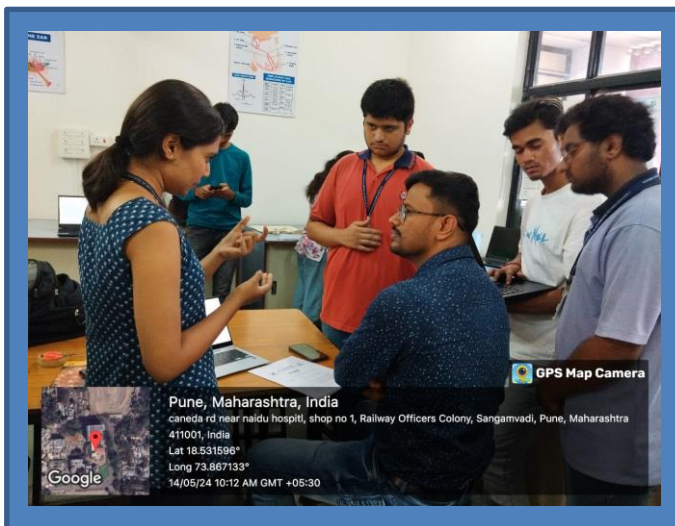
Workshop



Department of Instrumentation Engineering organized a workshop on “Applications of LabVIEW in Engineering” on dated 11th March to 15th March 2024 in association KIMAYA Automation Pvt. Ltd Pune and AISSMS IOIT ISA Student Section. Sessions conducted by Mr. Amit Amrutkar, Technical Architect and Consultant, KIMAYA Automation Pvt Ltd, Pune and Mr. Vitthal Sangle, Tech Lead, KIMAYA Automation Pvt. Ltd Pune. The workshop organized by faculty coordinator Mrs. S. V. Kulkarni and Mrs. C. D. Rananaware under the guidance of Dr. A. A. Shinde(Head, Department of Instrumentation Engineering) and Dr. P. B. Mane (Principal, AISSMS IOIT, Pune). The workshop benefited for S.Y. BTech Instrumentation Engineering students.

Project Based Learning Activity

8



Department of Instrumentation Engineering organized “ Project Based Learning Activity and Exhibition “ on dated 17th may 2024. This activity is organized by coordinator Mrs. C. D. Ranaware under the guidance of Dr. A. A. Shinde(Head, Department of Instrumentation Engineering) and Dr. P. B. Mane (Principal, AISSMS IOIT, Pune). The workshop benefited for S.Y. BTech Instrumentation Engineering students.

Zonal Poster Presentation – Robotics Club



AISSMS
INSTITUTE OF INFORMATION TECHNOLOGY
(IOIT)



ZONAL POSTER PRESENTATION COMPETITION



18 APRIL 2024

TIME : 9:00 AM

VENUE : AISSMS IOIT, INSTRUMENTATION DEPARTMENT, ROOM 704

Topics:

- 1) Industrial Safety Engineering
- 2) Robo Revolution : The Future of Automation
- 3) Driving the Future : The Rise of Automation
- 4) Multi-Discipline (Agri, Biomedical, AI, Automation etc.)

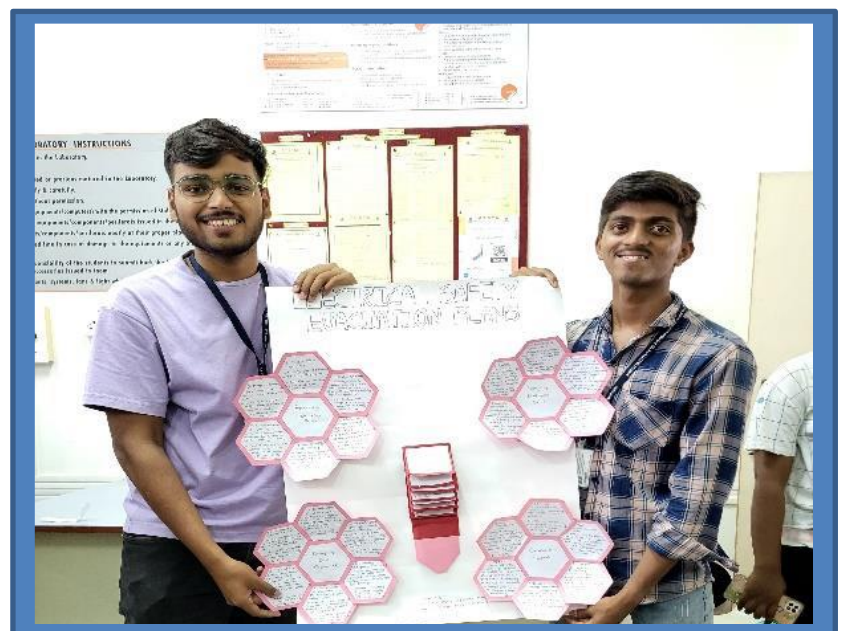
On Spot Registration Available
Registration Details in QR Code
Maximum of Two Participants Per Team

1st Prize : ₹ 1500/-

2nd Prize : ₹ 1000/-

3rd Prize : ₹ 500/-



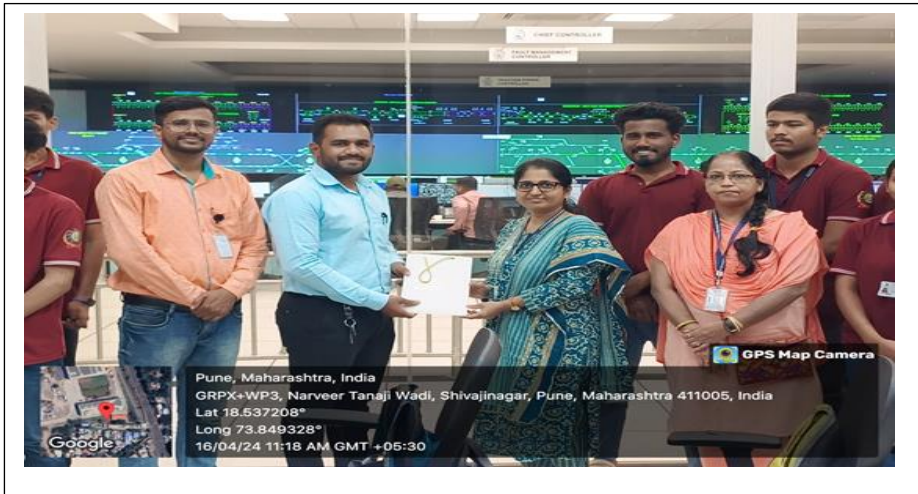


The Zonal Poster Presentation Competition was held on 18th, April 2024 at AISSMS Institute Of Information Technology and organized under the Robotics Club in collaboration with the International Society of Automation Student Section and Fire & Security Association Of India Student Chapter

FACULTY FDP

Sr. No	Name Of Faculty	Title Of FDP	No Of Days
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	Mrs C.D.Rananaware	Effective Engineering Teaching 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	Mr.S.S.Jagtap	Foundation of Cloud IoT Edge 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	Dr. V.V.Kale	Fundamentals of Machine Learning	5 days
13	Dr. V.V.Kale	Industrial robots	5 days
14	Mrs.S.V.Kulkarni	Innovations by Design	
15	Mrs.S.V.Kulkarni	Research Paper writing & IP Rights	4 Week
16	Mrs.S.V.Kulkarni	Maharashtra State Development Academy in collabration with Rotary International discript 3131	3 days
17	Mrs.S.V.Kulkarni	National Institute of Technical Teachers Training and Research (NITTTR)Kolkatta	5 days
18	Mr. H. P. chaudhari	Maharashtra State Development Academy in collabration with Rotary International discript 3131	5 days

Industrial Visits



Tilte:-Industrial Visit Maha Metro Rail Corporation Limited Pune

AISSMS Institute of Information Technology, Pune -Department of Instrumentation Engineering organized an Industrial Visit at Maha Metro Rail Corporation Limited Pune, on 16/04/2024 for S.Y.B.Tech Instrumentation Engineering students. This visit was coordinated by Mr. P.U.Palkar along with Dr A A Shinde



AISSMS Institute of Information Technology, Pune -Department of Instrumentation Engineering organized an Industrial Visit at Analogic Automation Pvt. Ltd Pune, on 12/01/2024 for T.E. Instrumentation Engineering students. This visit was coordinated by Mrs. S. V. Kulkarni along with Mr. H. P. Chaudhari, Dr. V. V. Kale, Dr. B. N. Mohapatra.



Tilte:-Department of Instrumentation Engineering had organized industrial visit to The World of Automation for SY and TE students.



Department of Instrumentation engg. had organized industrial visit to Vighnaharta Technologies for SY students

Photo Gallery

