Instrumentation & Control Engineering

MVPS's KBT College of Engineering, Nashik

https://kbtcoe.org

Institute Vision

 To be internationally accredited, Multidisciplinary, and Multicollaborative institute working on technology enabled platform fostering innovations and patents through state-of-art academic system designed by highly qualified faculty for the development of common masses at large

Institute Mission

 To educate and train common masses through undergraduate, post graduate, research programs by inculcating the values for discipline, quality, transparency and foster career and professional development for employment thereby contributing to the development of society

Department Vision

 To be an accredited department of preferred choice among common masses in the multidisciplinary field of automation and control engineering.

Department Mission

- To prepare competent professionals to meet current and future demands of industry, academia and society of multidisciplinary field of automation.
- To strengthen collaboration with reputed industries and institute of global insight.
- To inculcate spirit of research and entrepreneurship amongst the students.

Program Educational Objectives

- Core competency in the multidisciplinary field of automation to cater to the industry and research needs.
- Multi-disciplinary skills, team spirit and leadership qualities with professional
 - ethics, to excel in professional career and/or higher studies in Instrumentation and Control Engineering.
- Prepared to learn and apply contemporary technologies for addressing impending challenges for the benefit of organization/society.

InstruCon is the official newsletter of Instrumentation & Control Engineering department that keeps you up-to-date regarding what's happened in department. It is made possible by a small but dedicated team of department staff members. This annual newsletter covering the news of different activities organized and conducted by department in every academic year. To find a particular news with in this newsletter.

About Department

Department of Instrumentation and Control Engineering at Maratha Vidya Prasarak Samaj's Karmveer Adv. Baburao Ganapatrao Thakare College of Engineering, Nashik was established in the year 1999. The main focus of our department is to teach technical knowledge to students, promote their problem solving skills. Our faculty members have excellent academics record and highly regarded. We have state of art facilities to support our program. Possibly even more important is our continual commitment to our students, helping them to learn, grow, develop and achieve their goals in the professional career.

JULY-2024

1.Induction Program (SE,TE,BE)

The Department of Instrumentation & Control Engineering organized an Induction Program for Second year, Third year, and Final year students on 06th July 2024. Dr. B. J. Parvat, HOD, welcomed all the students and guided them regarding their roles and responsibilities for the AY 2024-25 Semester-I. He discussed the courses scheduled for the semester, emphasized their importance, and introduced the subject teachers.

Dr. S. H. Jadhav highlighted the significance of maintaining a diary during academics, setting higher goals, and putting sincere efforts into studies. Dr. Y. P. Patil provided detailed insights into the Internal Quality Assurance Cell (IQAC), its functions, efforts by staff members to promote a culture of academic quality, and the roles of both staff and students. He explained the implementation of outcome-based education, program outcomes, specific objectives, and the importance of feedback.

Mr. V. A. Ahirrao spoke about the efforts of the Training and Placement cell, advising students on how to prepare for placements, common interview mistakes, and the importance of soft skills, aptitude, and technical skills. Mr. S. R. Pandit discussed the study plan for the academics and introduced the subjects.

Mr. S. D. Nikam stressed the importance of aptitude in engineering curriculum and technical preparation for the GATE Exam. Mr. S. B. Lukare addressed the discipline required in engineering studies and the importance of regular attendance.

The meeting concluded with gratitude expressed to the HOD and other attendees, including the students.





2. Selection of our Alumni, Ms. Rupali Vijay Avhad for his selection in Master's in Data Science at Wichita State University, Wichita, Kansas, USA (wit Scholarship of 12000\$)

Hearty congratulations to our Alumni of Instrumentation and Control Engineering (2024 pass out batch), Ms. Rupali Vijay Avhad for his selection in Master's in Data Science at Wichita State University, Wichita, Kansas, USA (wit Scholarship of 12000\$)

Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Ms. Rupali Vijay Avhad for her Achievements.

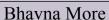


3. Campus Placement.

1.Bhavna More, Neha Saraf, Rutuja Doshing, Revati Patil, Pavithra Nair, Akshata Thankar, Neha Adhav, Shreyas Yelmame, Akash Bodke and Gaurav Nikam (Batch 2024-25) are being placed in Emerson Export Engineering Company, Nashik.

2. Mohini R. Kulthe is being placed in ICT Solutions Pvt. Ltd., Pune(Batch 2023-24)







Neha Saraf



Rutuja Doshing



Revati Patil



Pavithra Nair



Akshata Thankar



Neha Adhav



Shreyas Yelmame



Akash Bodke



Gauray Nikam



Mohini Kulthe

4. Expert session on Labview

Mr. Kudari is having expertise in industrial automation using Labview Hardware and software. He demonstrated analog input interface on PC to faculty members. He discussed which different applications can be developed on Labview. Further a trend display of the analog input is also demonstrated along with % output display as bar.





5. Visit of Shri. Dhananjay Puranik Sir, Manager, Instrumentation, Worley India Pvt Ltd, Pune visited to MVPS's KBT, COE, Department of Instrumentation and Control Engineering, under Industry Institute Interaction

Hon. Shri. Dhananjay Puranik Sir, Manager, Instrumentation, Worley India Pvt Ltd, Pune visited to MVPS's KBT, COE, Department of Instrumentation and Control Engineering, under Industry Institute Interaction dated 20th July 2024. It was fruitful visit and the Industry Personal interacted with Faculty members and Students, showing keen interest in conducting the recruitment drive for 2024 Instrumentation and Control Engineering students after getting explored with the Laboratories and Student's Progress. All faculty members got explored with current going projects in Worley India Pvt Ltd, Pune. Sir also assured to assist students for their mini projects, Project work, providing Internship and helping our department for the placements. Dr. B. J. Parvat, HOD, Instrumentation and Control Engineering department along with Faculty members appreciated Shri. Dhananjay Puranik Sir for the interaction and sparing his valuable time.





6. Value Added Session on "Preparation for forthcoming campus drive of Johnson Controls (I) Pvt. Ltd., Pune" organized by Department of Instrumentation and Control under Instrumentation & Control Student's Association (ICONs)

Mr. Sajid Shaikh, GET at Johnson Controls (I) Pvt. Ltd., Pune delivered a Value-Added Session "Preparation for forthcoming campus drive of Johnson Controls (I) Pvt. Ltd., Pune" to BE (Instru. & Control Engg.) students on 26th July 2024. He explained the complete process of campus selection, what needs to be prepared, sources of material and other skills which will be highly required. He also highlighted the importance of time management, patience and hard-work. Many students asked doubts during the interaction and got appropriate answers. Mr. Sajid Shaikh was felicitated by HOD Dr. B. J. Parvat.





7. Interaction with Suchit Walekar, EGM (Engineering Group Manager) at General Motors Global Technical Centre, Detroit, USA

He said: selecting a standard ISO will affect thousands of people. Overall fundamental knowledge – basic of all sectors is beneficial. Safety is of utmost important, if any injury occurs, entire plant is OFF!. Electrical drives and conveyors are very important systems. Why Language proficiency is important? - We should be able to tell people working under the team: which mistakes to avoid. How to develop front end, how to convince. Electric motors domain knowledge. Data driven scenario. Cyber security: manufacturing level, product level and industrial level. Data + PLC + Python. MQTT protocol. Run Dark Factory concept (fully automated, with no required human labor). Upcoming area Image Vision (IR, Thermal, color) technology. MQTT Camera and robot interfacing (No PLC required!). Process Engineering along with small experimentation could be done. Example dosing technology, coating on vehicle, and coating on medicines (capsules). Two to three months internships at Second, Third and Final year internships are essential. Through internship one comes to know about liking of the topic, gap is identified, job-area-identification is possible.



8. Tree Plantation

An old Bambo plant at house of the person is now planted on a side of Trumbak Road after about 2/3 years when brought from Papaya's Nursery Nashik. CO2 captured in bio-mass material including bamboo can be done following European Norms EN 16785-2 and En16499. The CO2 captured by the durable products can be calculated rather simply based on the density of the bamboo species, taking into account the moisture and glue content



AUGUST-2024

1. Alumni visit to Department

Mr. Nikhil Kandare, Mr. Onkar Kapadne, Mr. Pratik Junagade, Mr. Lalit Badhan, Ms. Bhavana Boraste, Ms. Shivani Kadlak (2023 Instrumentation and Control Engineering Passout),

It is a Proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2023 batch Mr. Nikhil Kandare working as a Control System Engineer in TOYO Engineering Pvt Ltd, Mumbai, Mr. Onkar Kapadne working as a Project Manager in Gandhi Automation, Bangalore, Mr. Pratik Junagade working as a Project Engineer in Artee Flow Pvt Ltd, Pune, Mr. Lalit Badhan working as a Technical Sales Engineer in Gogate Electrosystem, Nashik, Ms. Bhavana Boraste working as a Junior Control Engineer in Nido Automation, Nashik, Ms. Shivani Kadlak (Total 06 Alumni of 2023 batch) visited our Instrumentation and control Engineering department dated 03rd August 2024. In this visit they shared their success story as an Engineer. They shared few ongoing projects of his company. They shared her experience while working in his Organization. They showed keen interest in interacting with students and providing them any kind of help in future regarding Internship, Projects and Entrepreneurship. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated all six Alumni for their Achievements and wished tem all the best for their golden Career Ahead.







2. Alumni visit to Department Ms. Sayali Maniyar (2018 Instrumentation and Control Engineering Passout), Assistant Manager, in Bosch Limited, Nashik

It is a Proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2018 batch Ms. Sayali Maniyar working as a Assistant Manager, in Bosch Limited, Nashik visited our Instrumentation and control Engineering department dated 05th August 2024. In this visit She shared her success story as an Engineer. She shared few ongoing projects of his company. She shared her experience while working in his Organization. She showed keen interest in interacting with students and providing them any kind of help in future regarding Internship, Projects and Entrepreneurship. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Ms. Sayali Maniyar for her Achievements and wished her all the best for her golden Career Ahead



3. Sports Achievements: Monsoon Premier League 2024-2025 Cricket Cup by Instrumentation and Control Engineering Students

Instrumentation & Control Engineering student have won the Monsoon Premier League (Heartiest congratulation to Team Instrumentation and Control for winning today morning the Monsoon Premier League 2024-2025 in MVPS's KBT, COE, Nasik by beating all the Participant teams and having excellent performance. Good Team Work, Excellent Coordination, Superb Patience Shown by our Instrumentation and Control Engineering Students. Once Again Hearty Congratulations for adding one more Cup to Department.



4. Student's Achievements: General Secretary of MVPS's KBT College of Engineering. Instrumentation and Control Engineering student have won the Monsoon Premier League

It is a proud moment for the Department of Instrumentation and Control Engineering. We are delighted to extend our heartfelt congratulations to Mr. Shreyas Yelmame for becoming the General Secretary of MVPS's KBT College of Engineering. This achievement is a testament to his dedication, hard work, and leadership qualities. We are confident that he will excel in this role and make a significant impact. All the very best for his future career ahead.



5. Alumni visit to Department

Ms. Sonal Sonawane (2004 Instrumentation and Control Engineering Passout), Project Manager in Accenture UK Limited, London

It is a Proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2004 passout batch Ms. Sonal Sonawane working as a Project Manager in Accenture, UK Limited, London Visited our Instrumentation and Control Engineering Department. In this visit She shared her success story as an Engineer. She shared few ongoing projects of his company. She shared her experience while working in his Organization. She showed keen interest in interacting with students and providing them any kind of help in future regarding Internship, Projects and Entrepreneurship. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Ms. Sonal Sonawane for her Achievements and wished her all the best for her golden Career Ahead.



6. Role Play

Description:

Role play, including acting out scenarios to problem solve, story making through dramatic play and practice in coping with real life situations will support student's social-emotional growth and development. Role play helps to develop the skills to handle problematic social interactions. In the role play, each student was assigned the application (with role of each component) was discussed with the students. Each student was assigned particular role of the act. Students presented their role with its function, structure, role and its importance. Total Four groups were formed

Group A (Total 07 Students) was assigned the Role Play on "Demonstration of Spark Ignition (S.I) Engine" – Team Leader was Mr. Shreeyas Yelmame

Group B (Total 05 Students) were assigned the Role Play on "Demonstration of Compression Ignition (C.I) Engine". – Team Leader was Ms. Bhavana More

Group C (Total 06 Students) were assigned the Role Play on "Role of Engine Measurement Units in Automotive". – Team Leader was Mr. Akash Bodke

Group D (Total 06 Students) were assigned the Role Play on "Role of Sensors and Actuators in Automotive". – Team Leader was Ms. Pavithra Nair

Complete working of Compression Ignition Engine, Spark Ignition Engine, and Working of Sensor with application, Working of Engine Measurement Units was carried out through Role play. Then Students were assigned the role of: Cuise Control Actuator, HVAC Actuator, Engine Throttle, Power Window Actuator, Role of Sensors and Actuators in Automotive, Torque, Displacement, CC, RPM, Horsepower, cylinder head, piston, crankshaft, cylinder block, fuel injector, battery,smoke, Air, fuel.. All four groups executed very well the Role Play. This is how every student plays his/her role.









7. Industrial Visit and Interaction with Expert

This visit explored a knowledgeable content related with industrial problem solving by Shriharsh Electronics. Hon. Shree Samvastare Sir discussed in details how he solved an industrial problem innovatively. In due respect of the details not to be exposed here, in short a welding related pokeyoke problem solving is discussed. All faculties were delighted by this. Sir advised to faculties to do only hardware embedded practical and no simulations. Faculties interacted with Sir about 2 hours.



8. Industrial Visit at "JUVIK Solutions Pvt. Ltd. Nashik. Staff Members - 02.

Dr. A. R. Kulkarni and Mr. S. B. Lukare

Dr. A. R. Kulkarni and Mr. S. B. Lukare faculty members of Instrumentation & Control Engineering department have visited the JUVIK Solutions Pvt. Ltd. Nashik, regarding the sponsored project of B.E. students for AY 2024-2025...



9 Faculty Development Program "Shaping the Future of Teaching with Industries" to foster collaboration between industry and academia.

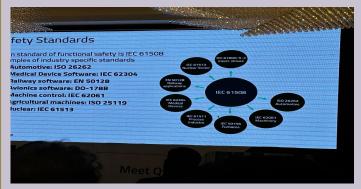
Dr. A. R. Kulkarni and Mr. S. B. Lukare faculty members of Instrumentation & Control Key points: Project of students and students have to put their life in that project. Industry Expert sessions and number of Industry experts in a private university is 30. Link efforts of people to vision and mission. We have to be learner always. We are required to throw lethargy. Skills like problem solving, team building and risk analysis are used by these leaders.





10. Meet QT Chennai

Functional safety requirements are increasingly relevant in a number of disparate markets, from hospitals, roads, railways, industrial vehicles, and factories. With *Qt Safe Renderer*, one can develop modern embedded systems that are both functionally safe and fully dependable. The Qt Safe Renderer module provides a UI (user interface) rendering component that can be used to render safety-critical items, such as warning indicators, in functional safety systems. Qt's efficient design and development workflow, along with over 30 years of production experience in various industries, has accelerated Infineon Technology's UI application development. Infineon Technologies has announced a collaboration with Qt Group to enable easy integration of Qt's graphical user interface (GUI) framework directly into Infineon's microcontrollers (MCUs). QT does provide Code Coverage, GUI embedded software testing, User Feedback online, 3D animation software development in mechanical, aviation, medical, consumer electronics, industrial automation sectors. Few of the customers are ABB, Mercedes Benz, Weatherford International, HENSOLDT, Leuze, TR-Electronic, Schaeffler Group and many more





11. Expert Lecture on "Introduction to Arduino Uno Board under CSI"

Mr. S. D. Nikam, Assistant Professor Instrumentation Control Engineering, MVPS's KBTCOE, Nasik delivered a Value Added Skill Development Session on "Introduction to Arduino Uno Board" dated 24/09/2024 for Third Year Information Technology students of MVPS's Rajarshi Shahu Maharaj Polytechnic, Nasik. Sir started with basics and installation of Arduino Uno board, Applications of Arduino in real world projects, shared information about developing simple projects with Arduino. Sir motivated students to Contribute themselves in making their own real world projects This activity gave motivation and understanding to students regarding their role as an Engineer Total 50 participants attended the session.





12. Participated in 5 Day ISTE Approved STTP on "SMART SENSING AND INTELLIGIENT SYSTEM

Dr. S. H. Jadhav, Faculty of Instrumentation and Control Engineering, participated and Successfully completed 5 Day ISTE Approved STTP on "SMART SENSING AND INTELLIGIENT SYSTEM" at MKSS's Cummins College of Engineering for women, Pune-411007 from 26/08/2024 to 30/08/2024



10. Dr. S. H. Jadhav, Faculty of Instrumentation and Control Engineering, participated and Successfully completed 5 Day ISTE Approved STTP on "SMART SENSING AND INTELLIGIENT SYSTEM" at MKSS's Cummins College of Engineering for women, Pune-41Departmental Advisory Board (DAB) Meeting

Members Present:

Mr. Hemant Lele (Director, Emerson), an industry expert;

Mr. Pralhad Dhumal (GM, Fox Solutions), an expert in special courses from outside the autonomous college; Dr. G. M.

Malwatkar (HOD in GCOE Jalgaon), an expert from outside the parent university; and

Mr. Dadasaheb Pawar (Owner, Teklogica), an alumnus.

Dr. B. J. Parvat, all Instrumentation staff members

1007 from 26/08/2024 to 30/08/2024

The First BOS Meeting for Instrumentation & Control Engineering organized on 30th August 2024.

Dr. B. J. Parvat provided a brief overview of the department's progress and achievements to the BoS members. He presented the proposed curriculum structure for the S.Y., T.Y., and B.Tech. Instrumentation and Control Engineering programs by considering the NEP guidelines and the UGC credit framework. He also discussed the course baskets for Program Core Courses (PCC) and Program Elective Courses (PEC).

Mr. Hemant Lele suggested that more focus should be placed on practical work, behavioral tests, and building student responsibility while designing the curriculum structure. He recommended that practical and oral exams be assessed externally. Additionally, he suggested including courses such as Electric Vehicles, Building Automation, and Biomedical Instrumentation in the electives rather than core courses and exploring aerospace topics in the curriculum if possible.

Mr. Pralhad Dhumal suggested that the thinking abilities and the fundamentals of the students should be emphasized. He recommended that students should focus on reference books. He advised correlating controls and network theory with core subjects and relating practical of certain subjects to our field. Additionally, he proposed combining 70% Analytical Instrumentation and 30% Biomedical Instrumentation into a single elective course and suggested integrating internships with projects.

Dr. G. M. Malwatkar suggested to include course content such as Communication Protocols and Network Topology in the curriculum. He recommended to cover concepts like IGBT, MOSFET, and electrical machines before Electrical Drives course in the curriculum. He also proposed to add a Project Management course as an open elective. Additionally, he suggested to conduct a market demand survey to improve the curriculum.

Mr. Dadasaheb Pawar suggested to include Economics and Project Management courses in the curriculum. He recommended that Project Management should cover with site activities and integration of i ulum. He also proposed to add on-the-job training and provide options for students who do not secure projects or internships.

After a long and productive discussion with the BoS members, the proposed program curriculum structure was revised and finalized.

nstruments with processes.He also proposed if possible consider power generation and power plants instrumentation in the curric





SEPTEMBER- 2023

1. Alumni visit to Department Mr. Mahendra Gunjal (2020 Instrumentation and Control Engineering Passout), Automation Engineer, Siemens Technology and Services, Bangalore

It is a proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2020 batch Mr. Mahendra Gunjal working as an Automation Engineer, Siemens Technology and Services, Bangalore visited our Instrumentation and control Engineering department dated 14th September 2024. In this visit he shared her success story as an Engineer. He shared few ongoing projects of his company. He shared her experience while working in his organization. He showed keen interest in interacting with students and providing them any kind of help in future regarding Internship, Projects and Entrepreneurship. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Mr. Mahendra Gunjal for his achievements and wished him all the best for his golden Career Ahead.



2. Value added session on "Financial Awareness-Need of the Hour" By CA Prasanna Pangam,

Partner Palsule Pangam and Co. Nashik

To have the basic knowledge of facts and figures in finance department has conducted the session on "Financial Awareness-Need of the Hour". In this session CA focused on the Traditional and Recent Trends of financial management, difference between savings and returns. He also focused on the different modes and rules to be adopt during the financial planning and execution. He said that students should start their investment in early age with the rule Earn-Invest=Spend.





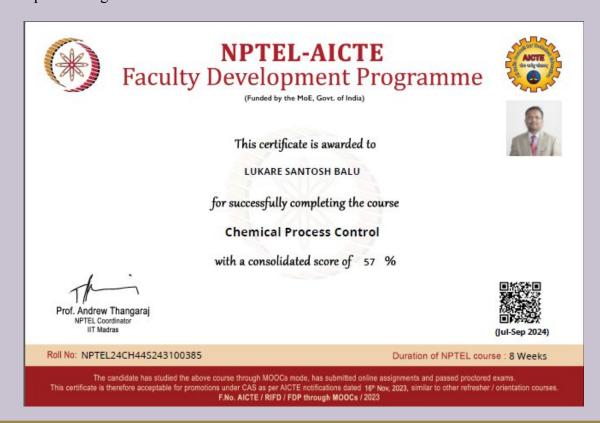
3. SE/TE/BE Parents-Teacher Meet, Academic Year 2024-2025, SEM-I

As part of curriculum the department has conducted parent-teacher meet on 28.09.2024, in this PTM the expectations from the parents for the progress of their ward are highlighted by the HoD. Many parents have given the feedback about excellent teaching-learning, good discipline, best efforts by the department for the 100% placement of all eligible students.



4. NPTEL-AICTE Faculty Development Programme on "Chemical Process Control"

As part of academic and an initiative by Swayam NPTEL I Santosh Balu Lukare have attended the **8 Week** online certification course on "Chemical Process Control" and undergone through the proctored examination with 57% of consolidated score. This course is also having valid Faculty Development Programme with the certification.



5. Participated in One Week ISTE Approved STTP on "Smart Sensing and Intelligent System" from 26th August to 30th August 2024.

Dr. S. H. Jadhav, Faculty of Instrumentation and Control Engineering, participated in online One Week ISTE Approved STTP on "Smart Sensing and Intelligent System" from 26th August to 30th August 2024 at MKSSS's Cummins College of Engineering for Women's, Organized by Department of Instrumentation and Control Engineering Department, Pune

Dr. B. J. Parvat, HOD, Instrumentation and Control Engineering department along with Faculty members appreciated Jubil sir for the interaction and sparing is valuable time.



6. Avishkar Project Competition (College Level)

11 Participants from Instrumentation and Control Engineering department

MVP's KBT College of Engineering conducted the Avishkar-2024 College level Competition on 23th September 2024. A total of 04 groups (11 Participants) from BE Instrumentation participated in the event. Two winning groups were announced in each category and they are eligible for Intercollege Event, and they are as follows:

Two winning groups were announced in each category and they are eligible for Intercollege Event, and they are as follows

From the Agriculture Domain:

Selected Group: Smart Irrigation System for Precision Farming*

Students: Rutuja Doshing, Akshata Thankar, Revati Patil

From the Engineering & Technology Domain:

Selected Group: "Precision Control: A PID-Based Tank Management System*

Students: Neha Adhav, Akash Bodke, Parth Muley Hearty congratulations to all the selected Students for getting selected at Zonal Level



7. Participated in One Week FDP on "Smart Manufacturing-a- Multi disciplinary approach from 23th September to 28th September 2024.

Dr. S. H. Jadhav, Faculty of Instrumentation and Control Engineering, participated in One Week Offline mode FDP on "Smart Manufacturing-a- Multi disciplinary approach from 23th September to 28th September at K. K. Wagh Institute of Engineering Education and Research, Nasik 422003From the Agriculture Domain:

Selected Group: Smart Irrigation System for Precision Farming*

Students: Rutuja Doshing, Akshata Thankar, Revati Patil

From the Engineering & Technology Domain:

Selected Group: "Precision Control: A PID-Based Tank Management System*



8. Smart India Hackathon Event (College Level)

23 Teams Participants from Instrumentation and Control Engineering department

Smart India Hackathon Event organized at College level. For Instrumentation and Electronics the Track was organized by Instrumentation and Control Engineering department. Total 23 Teams Participated, 08 Teams were from Instrumentation and Control department. Dr. S.H. Jadhav headed as Coordinator for the event.

Hearty congratulations to all the participated Students in Smart India Hackathon Event.





9. MoU between Confederation of Indian Industry and Maratha Vidya Prasarak Samaj's Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering

Young Indians (Yi) is an initiative and integral part of the CII formed with an objective of creating a platform for Young Indian's to realize the dream of a developed nation. It has over 6250 direct members in 66 city chapters, and indirect membership of over 2,10,000 through its Yuva. The objective is to create a bridge, a platform for the students to work in cross functional teams with a broad objective of enhancing their leadership skills and giving back to the nation. In the process, the students work in leadership roles while operationalizing projects that are based on self-development, skill building, community service and nation building. This MoU will bring best for students, institute and hence for our nation.





Department of Instrumentation & Control Engineering, MVPS's KBTCOE, Nashik

10. Organized AVISHKAR Project Competition

17 Teams Participants from Instrumentation and Control Engineering department

The Instrumentation and Control Engineering Department conducted the Avishkar-2024 Competition today. A total of 15 groups from BE Instrumentation participated in the event. The program was graced by the presence of the chief guests, Hon. Mr. Susmit Dalvi and Hon. Mr. Bhushan Pathak from Graphite India Ltd, Nashik

Two winning groups were announced in each category, and they are as follows: From the Agriculture Domain:

1. First group: Developed Aquaponic Agriculture System based on PLC/LabVIEW

Students: Harsh Choudhari, Akash Pole, Kunal Fegade

2. Second group: Smart Irrigation System for Precision Farming

Students: Rutuja Doshing, Akshata Thankar, Revati Patil

From the Engineering & Technology Domain:

1. First group: Advanced Vision Process Automation using PLC

Students: Abhijeet Satpute, Pavithra Nair

2. Second group: Precision Control: A PID-Based Tank Management System

Students: Neha Adhav, Akash Bodke, Parth Muley Hearty congratulations to all the selected Students





11. Students bagged Third Prize in Smart India Hackathon Event (College Level)

Total 80 Teams Participants from Various department of MVPS's KBT COE, Nashik

Students from Instrumentation and Control Engineering Department won Third Prize in Smart India Hackathon Event organized at College level. From Instrumentation and Control Engineering Department, Neha Adav, Akash Bodake, Parth Muley, Harsh Chaudhari and Divya Dalal won the Third Prize Dr. S.H. Jadhav guided the Project. The Project name was "Smart Parking System Using LabVIEW"

Hearty congratulations to the Winner Team in Smart India Hackathon Event





12. 5 days Automation training for RSM Polytechnic Third year Electrical students Total Participants: 2 faculty Dr. S. H. Jadhav and Dr. A. K. Patil and 41 students

The Instrumentation and Control Engineering Department conducted a comprehensive five-day automation training program for third-year Electrical students of RSM Polytechnic. This hands-on training focused on key automation technologies, including PLC (Programmable Logic Controller), HMI (Human-Machine Interface), SCADA (Supervisory Control and Data Acquisition), and DCS (Distributed Control Systems). Throughout the training, students engaged in practical exercises that not only enhanced their theoretical understanding but also provided them with valuable real-world experience. At the conclusion of the program, participants were awarded certificates in recognition of their accomplishments.

The feedback from students has been overwhelmingly positive. Many expressed that the hands-on practice significantly boosted their confidence in the subject matter. This successful initiative equipped students with the skills necessary for today's evolving technological landscape.

Dr. S. H. Jadhav conducted the training on DCS Module while Dr. A. K. Patil conducted the training on PLC and HMI Module.





13. Chief Guest for Valedictory Function for Workshop on Design of Electric Vehicle (Two Wheeler) Under AICTE- Idea Lab Organized by K. K. Wagh Institute of Engineering Education and Research, Nashik 422003.

Dr. S. H. Jadhav, Faculty of Instrumentation and Control Engineering, were Chief Guest for the Valedictory Function regarding Workshop on Design of Electric Vehicle (Two Wheeler) Under AICTE- Idea Lab Organized by K. K. Wagh Institute of Engineering Education and Research, Nashik 422003



14. Two days Industrial training on DC Drives at FOX Solutions Pvt. Ltd., Nashik Members Present: One faculty members and 22 students

Two days Industrial training conducted at FOX Automation Solutions PVT. LTD., Nashik for One faculty and 22 students. In the training, the sessions on basics of drives, electrical fundamentals, hands on practice including configuration and programming of DC Drive V90 was conducted. Every student and faculty worked on the drive programming and configuration part. The Training was conducted by Mr. Bhausaheb More from FOX Automation Solutions PVT. LTD., Nasik





OCTOBER-2023

1. Alumni visit to Department

Mr. Akshay Gore (2019 Instrumentation and Control Engineering Passout), Project Engineer in Rockwell Automation, Pune

It is a proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2019 batch Mr. Akshay Gore (2019 Instrumentation and Control Engineering Pass out), Project Engineer in Rockwell Automation, Pune visited our Instrumentation and control engineering department dated 03rd October 2024. In this visit he discussed with all Faculty members and Third Year Students, shared her success story as an Engineer. He shared few ongoing projects of his company. He shared her experience while working in his organization. He showed keen interest in interacting with students and providing them any kind of help in future regarding Internship, Projects and Entrepreneurship. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Mr. Akshay Gore for his achievements and wished him all the best for his golden Career Ahead.



2. Alumni visit to Department

Mr. Vikas Ugale (2019 Instrumentation and Control Engineering Passout), Project Engineer in Fox Solutions Pvt Ltd, Nashik

It is a Proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2019 batch Mr. Vikas Devidas Ugale (2019 Instrumentation and Control Engineering Pass out), Project Engineer in Fox Solutions Pvt Ltd, Nashik visited our Instrumentation and control Engineering department dated 04rd October 2024. In this visit he discussed with all Faculty members and Final Year Students, shared his success story as an Engineer. He shared few ongoing projects of his company. He shared her experience while working in his organization. He showed keen interest in interacting with students and providing them any kind of help in future regarding Internship, Projects and Entrepreneurship. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Mr. Vikas Ugale for his achievements and wished him all the best for his golden Career Ahead.



3. Alumni visit to Department

Mr. Murtaza Husaini (Instrumentation and Control Engineering 2022 Passout), Project Engineer in Fox Solutions Pvt Ltd, Nashik

It is a Proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2019 batch Mr. Murtaza Husaini (Instrumentation and Control Engineering 2022 Pass out), Project Engineer in Fox Solutions Pvt Ltd, Nashik visited our Instrumentation and control Engineering department dated 04rd October 2024. In this visit he discussed with all Faculty members and Final Year Students, shared his success story as an Engineer. He shared few ongoing projects of his company. He shared her experience while working in his organization. He showed keen interest in interacting with students and providing them any kind of help in future regarding Internship, Projects and Entrepreneurship. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Mr. Vikas Ugale for his achievements and wished him all the best for his golden Career Ahead



4. MoU Signing

Total number of students- Nil

Industry Person; Mr. Ankush Shitole, Plant Head

Staff- 1. Dr S R. Devane, Dr. B. J. Parvat and Dr. S. H. Jadhav

Our department has signed MoU with Bilcare Research Caprihans India Limited Nasik which is a leading and upcoming company growing fast in the field of automation, manufactures and distributes packaging films. The Company offers laminated, transparent, pharmaceutical packaging and specially films as well as extruded sheets and boards. Caprihans India markets its product in India. Under this MoU, company have mutual interest in Industrial Training, Project development, and Knowledge dissemination along with Internship and Placement.



5. 200 hours MVP-FOX Automation training Total Participants: 2 faculty and 22 students

The Instrumentation and Control Engineering Department conducted Automation training program at MVP-FOX automation training center for 22 students. This training center is established by Instrumentation and Control Engineering department in collaboration with FOX automation solutions PVT LTD, Nashik. This hands-on training focused on key automation technologies, including PLC (Programmable Logic Controller), HMI (Human-Machine Interface), SCADA (Supervisory Control and Data Acquisition), and AC /DC Drives. Throughout the training, students engaged in practical exercises that not only enhanced their theoretical understanding but also provided them with valuable real-world experience. At the conclusion of the program, participants will be provided internship in company.

6. Campus Placement.

- 1. Sudiksha Chavan and Pranav R. Patil are being placed in Johnson Controls (India) Pvt. Ltd., Pune.
- 2. Akash Pole is being placed in FOX Solutions Pvt. Ltd., Nashik
- 3. Rushikesh Padade in being placed in JNK India Ltd., Mumbai.

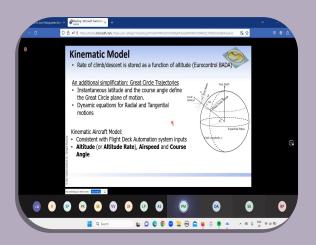


7. "Field-based study in a Pangri Bk Village of Sinnar" organized by MSFDP and UMA, IIT Mumbai along with MVPS's KBTCOE, Nashik.

Under the Maharashtra State Faculty Development Program and Unnat Maharashtra Abhiyan, IIT Mumbai organised a field study-based faculty development program at Rajarshi Shahu Maharaj Polytechnic Nashik on 3rd, 4th, and 5th September 2024. This field-based FDP included several steps: understanding field-based study learning, visiting a village to understand different processes and issues, planning for field-based study in groups, conducting surveys, holding discussions and analysis, and report

A detailed analysis and report will be prepared and presented to the UMA team. writing.

Our 09 faculty members visited Pangri Village and examined various activities and issues as part of this activity. Within this field-based study, two of our faculty members, Dr. Y. P. Patil and Mr. V.A. Ahirrao, decided to work on a project titled "Study of Chula and Other Energy Sources in Pangri Village". They shared this activity plan with third-year students, and four students became involved in the study. Objectives, measurements, and questionnaires were prepared, and the group visited Pangri Village on 6th October 2024. They visited approximately 150 houses and collected data based on the prepared questions





8. Visit to Entrepreneur

In this visit Hon. Joy Sir discussed current status of engineering institute and college interaction – which needs to be increased, need of fundamentals those students learn. He also discussed a new topic of research – that is Power Utility Effectiveness in context to Data Centers. A typical data centre needs cooling from 10 MW to 600MW energy. This heat generated needs to be carried. It has a specific numeric standard value and it is point of research. The terminology of PUC was discussed using a published paper from IEEE Transactions on sustainable computing August 2022. Lot of technologies exists for cooling in data centers.



10. Innovative teaching method: PLC Ladder Logic Development competition

Total Participants: 26 students (11 groups)

During this innovative teaching session, participants were grouped into teams of three to develop a PLC ladder logic diagram for a bottle filling plant simulation. Each team began by brainstorming and sketching their logic on paper, focusing on the critical operational steps necessary for the filling process, such as bottle detection, filling, and conveyor management. Once the logic was finalized, teams utilized the PLC simulation kit to simulate their designs, testing and troubleshooting their ladder logic to ensure it,s working. This hands-on experience not only fostered collaboration but also deepened participants' practical skills in PLC

11. Expert Session on "Hybrid Electric Vehicle and Testing" organized by Department of Instrumentation and Control under Instrumentation & Control Student's Association (ICONs)

Dr. Seema Jadhav, Associate Professor, MVPS's KBT COE Nashik, Department of Instrumentation and Control Engineering, delivered an Expert Session on "Hybrid Electric Vehicle and Testing" to BE students dated 16th October 2024. She focused on Important aspects like Four Stroke Engine, different types of Hybrid Electrical Vehicles, their significance, BTU (British Thermal Unit) and its Significance, Different types of motors used in Electric Cars. How Testing of Electric Vehicles are carried out, Emerging Trends: Electric vehicles were the key points focused by Dr. Seema Jadhav madam. Hon. Head of Department Dr. B. J. Parvat and all faculty members wished appreciated madam's effort for the conduction of the Expert Session.



12. F Industrial Visit at Borse Auto motives, Nashik
For BE Instrumentation and Control Engineering students. Total number of students- 27

13 Alumni visit to DepartmentMr. Akshay Gore (2019 Instrumentation and Control Engineering Passout), Project Engineer in Rockwell Automation, Pune

It is a Proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2018 pass out batch Mr. Akshay Jamdade working as Manager - Tender & Comm & also leading Automation Dept. Founder- Laxminarayan Electricals Visited and Interacted with Faculty and Students of Instrumentation and Control Engineering Department dated 20th October 2024. Best of luck to Mr. Akshay for his future career In this visit he discussed with all Faculty members and Students, shared her success story as an Engineer. He shared few ongoing projects of his company. He shared her experience while working in his organization. He showed keen interest in interacting with students and providing them any kind of help in future regarding Internship, Projects and Entrepreneurship. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Mr. Akshay Jamdade for his achievements and wished him all the best for his

14. "Laghu Udyog Bharati, Nashik Engineering Talent Search Competition" 03 Students (01 Team) Participants from Instrumentation and Control Engineering department

Total 03 Students (01 team) participated and presented their project work in "Laghu Udyog Bharati, Nasik Engineering Talent Search Project Competition" (state level Competition). From Instrumentation and Control Engineering Department, Mr. Akash Bodke, Mr. Parth Muley and Ms. Neha Adhav (B.E) participated and presented their project work on 24th October 2024 at

1. Value Added Session on "Emotional Intelligence" organized by Department of Instrumentation and Control for Audit Course V, Sem I,

Ms. Rupa Shinde (Counseller) shared the importance of **Emotional Intelligence**. She briefed about various aspects of it like social skills, self-awareness, control on emotions etc. Students asked doubts during the interaction and got appropriate answers. How the students should act and handle different day-to-day situations was explained with the support of some examples. Session ended with a eye-opening video. Ms. Rupa Shinde was felicitated by HOD, Dr. B. J. Parvat.





2.12 weeks FDP on "Organizational Behaviour"







This certificate is awarded to

VIKAS ARUN AHIRRAO

for successfully completing the course

Organizational Behaviour

with a consolidated score of 77 %





Roll No: NPTEL24MG87S457500351

Duration of NPTEL course: 12 Weeks

s under CAS as per AICTE notifications dated 16® Nov, 2023, similar to other refresher / orientation courses F.No. AICTE / RIFD / FDP through MOOCs / 2023



Ceneral Manager, MSFDA

OUR KNOWLEDGE PARTNERS / आसचे जान भागीदार











Vigyan WHITELE



5. Industrial visit to Juvik Solutions Pvt. Ltd. Plot 73/3, MIDC Satpur Nashik 422 007.

An industrial visit (experiential learning) was arranged on topic Motor Control Centre (MCC). This topic is mentioned in SPPU syllabus and fortunately one of our department entrepreneur alumni has the same product for ongoing wiring-demonstration of the same. Students explored: MCC components: MCCB, Mechanical timer to set star to delta starter, MCCB testing function, star-delta wiring identification (which one is star!), firefighting panel: jokey pump, main pump, redundant pump, pump pressure switch. Students also came to know how engineering work once taken in hand can continue for three days – till the work is completed in an anecdote told by Mr. Purushottam Kulkarni.



6. Participated in 08 Week FDP on "Developing Soft Skills and Personality"

Dr. Y.P. Patil, Faculty of Instrumentation and Control Engineering, participated in a 8-week online faculty development program on "Developing Soft Skills and Personality" from August 2024 to October 2024. The FDP was organized by NPTEL-AICTE. This Faculty Development Program (FDP help faculty to develop their personality and understand the importance of soft skills in communication. The course also aims to help faculties to develop self-confidence, emotional intelligence, and social grace.



7. Participated in 08 Week FDP on "Developing Soft Skills and Personality"

Mr. S.R. Pandit, Faculty of Instrumentation and Control Engineering, participated in a 8-week online faculty development program on "Developing Soft Skills and Personality" from August 2024 to October 2024. The FDP was organized by NPTEL-AICTE. This Faculty Development Program (FDP help faculty to develop their personality and understand the importance of soft skills in communication. The course also aims to help faculties to develop self-confidence, emotional intelligence, and social grace



with a consolidated score of 69 %





manufacturing, assembly, installation and commissioning. The company specializes in Automation and turnkey projects.. Under this MoU, company have mutual interest in Industrial Training, Project development, and Knowledge dissemination along with Internship and Placement.



el

9. Industry Institute Interaction: Dr. Seema Jadhav madam and Mr. S.R Pandit of MVPS's KBT, COE, Nashik visited CIE Automotive India Limited, Nashik dated 28th November 2024 and met with Hon. Shri. Abhishek Joshi Sir, HR, Manager, CIE Automotive India Limited, Nashik As part of the Industry Institute Interaction Dr. Seema Jadhav madam and Mr. S.R Pandit of MVPS's KBT, COE, Department of Instrumentation and Control Engineering, Nashik visited CIE Automotive India Limited, Nashik dated 28th November 2024 and interacted with Hon. Shri. Abhishek Joshi Sir, HR, Manager, CIE Automotive India Limited, Nashik. We also took review and feedback of our Third year Engineering Students Pursing their Internship Work in CIE Automotive India Limited Nashik.



10. Alumni visit to Department Mr. Mayur Sakhare (2009 Instrumentation and Control Engineering Passout), Team Leader, Control Applications, Atlas Copco Ltd

It is a Proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2009 batch Mr. Mayur Sakhare (2009 Instrumentation and Control Engineering Pass out), Team Leader, Control Applications, Atlas Copco Ltd, visited our Instrumentation and control Engineering department dated 11th November 2024. In this visit he discussed with all Faculty members and Third Year Students, shared her success story as an Engineer. He shared few ongoing projects of his company. He shared her experience while working in his organization. He showed keen interest in interacting with students and providing them any kind of help in future regarding Internship, Projects and Entrepreneurship. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Mr. Mayur Sakhare for his achievements and wished him all the

11. Alumni visit to Department Ms. Shrunjal Suryawanshi (2007 Instrumentation and Control Engineering Passout), Deputy Executive Engineer, NTPS, Eklahare

It is a proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2007 batch Ms. Shrunjal Suryawanshi (2007 Instrumentation and Control Engineering Passout), Deputy Executive Engineer, NTPS, Eklahare visited our Instrumentation and control Engineering department dated 16th November 2024. In this visit she discussed with all Faculty members and Final Year Students, shared her success story as an Engineer. She shared few ongoing projects of his company. She shared her experience while working in his organization. She showed keen interest in interacting with students and providing them any kind of help in future regarding Internship, Projects and Entrepreneurship. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Ms. Shrunjal Suryawanshi for her achievements and wished her all the best for her golden Career Ahead.



12. Visit of Shri. Dadasaheb Pawar Sir, Our Prestigious Alumni and Director, Teklogica Control ,Systems, Nashik to MVPS's KBT, COE, Department of Instrumentation and Control Engineering, under Industry Institute Interaction

Hon. Shri. Dadasaheb Pawar Sir, Our Prestigious Alumni and Director, Teklogica Control, Systems, Nashik visited to MVPS's KBT, COE, Department of Instrumentation and Control Engineering, under Industry Institute Interaction dated 13th November 2024. Shri. Dadasaheb Pawar Sir came as an External Examiner for conducting SPPU Oral of Automotive Instrumentation Subject of B.E Instrumentation and Control Engineering Department. It was fruitful visit and the Industry Personal showed keen interest in conducting the recruitment drive for 2024 Instrumentation and Control Engineering students after getting explored with the Laboratories and Student's Progress. All faculty members got explored with current going projects in Teklogica Control, Systems, and Nashik. Sir also assured to assist students for their mini projects, Project work, providing Internship and helping our department for the placements. Dr. B. J. Parvat, HOD, Instrumentation and Control Engineering department along with Faculty members appreciated Shri. Dadasaheb Pawar Sir for the interaction and sparing his valuable time

13. Selection of our Alumni, Ms. Samruddhi Davkar for her selection in Master's in Data Science at University of Maryland Baltimore county, USA Hearty congratulations to our Alumni of Instrumentation and Control Engineering (2024 pass out batch), Ms. Samruddhi Davkar for her selection in Master's in Data Science at University of Maryland Baltimore county, USA. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Ms. Samruddhi Davkar for her Achievements.



12. 89 days (Blended) FDP on "Development Oriented Field-Based Study"

DECEMBER-2024

1. Session on National Education Policy-2020 Organized by School of Artillery, Devlali, Nashik

The School of Artillery (Indian Army) in Devlali, Nashik, is a premier Category "A" establishment under the Ministry of Defense, responsible for the training of Indian Army personnel since 1941. This institute offers various technical and managerial level courses, affiliated with Savitribai Phule Pune University (SPPU), specifically designed for Indian Army officers, Junior Commissioned Officers (JCOs), and Non-Commissioned Officers (NCOs).

Currently, all military-related courses are being conducted based on an approved syllabus as per the previous education policy. However, with the implementation of the National Education Policy (NEP) 2020, there is a need to redesign the syllabus, training structure, and assessment methods according to the credit point system.

In this context, Dr. Parvat, conducted a 2-hour session to clarify doubts about the new syllabus structure and the credit-based system.

2. Alumni visit to Department

Mr. Ashish Bagul (2015-16 Instrumentation and Control Engineering Passout), Owner, Director, AB Automation, Nashik.

It is a Proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2009 batch Mr. Ashish Bagul (2015-16 Instrumentation and Control Engineering Passout), Owner, Director, AB Automation, Nasik visited our Instrumentation and control Engineering department dated 20th December 2024. In this visit he discussed with all Faculty members shared her success story as an Entrepreneur. He shared her experience while running his own business. He showed keen interest in interacting with students and providing them any kind of help in future regarding Entrepreneurship. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Mr. Ashish Bagul for his achievements and wished him all the best for his golden Career Ahead.



3. Participation in one day Workshop on "Organizational Skills and Prosocial Development "Organized by MVPS's Human Resource Development Centre (HRDC).

Dr. Seema. H. Jadhav, Faculty of Instrumentation and Control Engineering Participated in one day Workshop on "Organizational Skills and Prosocial Development" Organized by MVPS's Human Resource Development Centre (HRDC) on 07^{th} December 2024 at IMRT, College of Management, Nasik. She gave the Valuable feedback regarding the sessions conducted.





4. Guided Students and Coordinated the "Engineering Talen Search 2024" Organized by LAGHU UDYOG BHARTI, NASHIK.

Dr. Seema. H. Jadhav, Faculty of Instrumentation and Control Engineering Guided Students and Coordinated the "Engineering Talent Search 2024" Event Organized by LAGHU UDYOG BHARTI, NASHIK. The Prize Distribution ceremony Event was held at Gateway Hotel (Taj), Ambad, Nashik on 08th December 2024. During the Event, Dr. Seema Jadhav interacted with Hon. Shri. Hanmantrao Gaikwad Sir, Chairman and M.D. BVG India Limited, Er. Nikhil Tapadia, President Laghu Udyog Bharti, Er. Om Prakash Kulkarni Sir, Consulting Engineer, Automation and Energy Management and Er. Uday Rakibe, Director Copper track and enermax Pvt. Ltd. Nashik





5. Campus Placement.

Parth Muley is being placed in FOX Solutions Pvt. Ltd., Nashik



Parth R. Muley

6. Career guidance program at MVPS's Arts, Science, Commerce College, Nandgaon

Dr Y.P. Patil (Asst. Prof. in Instrumentation Engg) and Mr. M.B. Patil (Asst. Prof. in Civil Engg) delivered session on "Career Guidance Program" at MVPS's Arts, Science, Commerce College, Nandgaon (Nashik). In this program students of 11th and 12th Science stream were present. In this session interactive discussion, Power point presentation as well as video demonstration is given regarding opportunities to 12th students in various career paths. For this program Principal of Nandgaon College, Science Coordinator Prof. Prakash M. Aher Sir, Prof. Koli Sir and other staff members were present. Total 121 students were present for the guidance session.

7. Career guidance program at MVPS's Arts, Commerce College, Makhamalabad Nashik-422003

Dr Y.P. Patil (Asst. Prof. in Instrumentation Engg) and Mrs. V.P. Shinde (Technical Assistant in Instru. & Control Engg) delivered session on "Career Guidance Program" at MVPS's Arts, Commerce College, Makhamalabad Nashik-422003. In this program students of 11th and 12th Science stream were present. In this session interactive discussion, Power point presentation as well as video demonstration is given regarding opportunities to 12th students in various career paths. For this program Principal of Nandgaon College, Science Coordinator Prof. Aher and other staff members were present. Total 107 students were present for the guidance session.





JANUARY 2025

1. Examiner for Project Competition "Avishkar-2024"

This one-day project competition was organized by Maharashtra University of Health Sciences, Nashik, on 5th and 6th December 2023. The competition received an overwhelming response from students across various colleges in Maharashtra affiliated with the University, with participants presenting projects in different categories. I had the privilege of being an examiner for the Engineering and Technology category, where a total of 48 projects were submitted by undergraduate, postgraduate, and Ph.D. students. Out of these, 3 projects were selected for the next state-level competition. It was a great experience for me, and I discovered many innovative ideas from the students, which could greatly benefit the health and science sectors in the future.





2. Career guidance program at MVPS's Janata Vidyalaya and Junior College, Patode,

Tal. – Yeola, Dist. - Nashik

Mr. V. A. Ahirrao (Asst. Prof. in Instrumentation Engg) and Mr. N. S. Gaikwad (Asst. Prof. in Mechanical Engg.) delivered session on "Career Guidance Program" at MVPS's Janata Vidyalaya and Junior College, Patode, Tal. – Yeola, Dist. - Nashik.

In this program students of 11th and 12th Science stream were present. In this session interactive discussion, various career opportunities and importance of Engineering, Eligibility criteria and seat distribution, Admission process by DTE, Applicable fees by various categories, Category wise documents required, Various programs offered by KBTCOE and facilities available were shared. Also, Benefits of autonomous institute and Placements of KBTCOE were highlighted.



3. SE/TE/BE Induction Program

Department of Instrumentation and Control Engineering have conducted an Induction program for SE, TE and BE students (Sem-II, AY 2024-25) with above details. HOD Dr. B. J. Parvat sir focused on CO-PO, PEOs and OBE in view of NBA upcoming visit. Importance of GATE Exam for placement in government organizations. As program coordinator Dr. A. K. Patil discussed NBA accreditation and its importance for students preferring their higher studies. Role of IQAC in NAAC accreditation and related activities is highlighted by IQAC coordinator Dr. Y. P. Patil. As dean Industry Institute Interaction Dr. A. R. Kulkarni brief the students about Innovation, Start-up and Industry based activities. Dr. S. H. Jadhav emphasized on consultancy, project based activities and its paper publication. Mr. S. D. Nikam finger on roles and responsibilities of ICON student's chapter, student's council and active participation by students. Department placement coordinator Mr. V. A. Ahirrao highlighted about the common mistakes by students during their placement drives. Importance of discipline during examination is focused by exam coordinator Mr. S. B. Lukare. The induction program is coordinated by Mr. S. R. Pandit.





4. Career guidance program at Karmaveer Punjababa Goverdhane Arts, Commerce and Science College, Igatpuri

Mr S. D. Nikam and Mr. S. B. Lukare (Assistant. Professor in Instrumentation and Control Engg) delivered session on "Career Guidance Program" at Karmaveer Punjababa Goverdhane Arts, Commerce and Science College, Igatpuri. In this session power point presentation containing information about MVPSs KBT College of Engineering as well as Engineering admission process and its various career paths was discussed with HSC 12th science students. For this program Dr. Kiran Rakibe principal of Karmaveer Punjababa Goverdhane Arts, Commerce and Science College, Igatpuri, Science Department Coordinator Prof. G. S. Kolhe and other staff members were present. Total 55 students were present for the guidance session.





5. MVPSs Smt. Jijabai R. G. Vidyalay and Junior College, Chandwad

Mr P. D. Aher (Assistant. Professor in Civil Engg) and Mr. S. B. Lukare (Assistant. Professor in Instrumentation and Control Engg) delivered session on "Career Guidance Program" at MVPSs Smt. Jijabai R. G. Vidyalay and Junior College, Chandwad. In this session power point presentation containing information about MVPSs KBT College of Engineering as well as Engineering admission process and its various career paths was discussed with HSC 12th science students. For this program principal Prof. Lohakare, Science Coordinator Prof. Bacchav and Prof. R. G. Patil of MVPSs Smt. Jijabai R. G. Vidyalay and Junior College, Chandwad, were present.





6. Career guidance program at MVPS's Arts, Science, Commerce College, Nandgaon

Mr S.R. Pandit (Asst. Prof. in Instrumentation Engg) and Dr. S.P. Mogal (Prof. in Mechanical Engg) delivered session on "Career Guidance Program" at KRT Arts B.H Commerce, Science College, Sukhena, Nashik. In this program students of 11th and 12th Science stream were present. In this session interactive discussion, Power point presentation as well as video demonstration is given regarding opportunities to 12th students in various career paths. For this program Head of KRT Arts B.H Commerce, Science College, Mr. Rajendra Dhanwate Sir, Head of Science Department, Mr. Sachin Bhandare Sir other staff members were present. Total 55 students were

present for the guidance session.



7. Alumni visit to Department

Ms. Sucheta Sonawane (2011 Instrumentation and Control Engineering Passout), Deputy General Manager, Schneider Electric India Pvt. Ltd, Pune

It is a Proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2011 batch Ms. Sucheta Sonawane 2011 Instrumentation and Control Engineering Passout), Deputy General Manager, Schneider Electric India Pvt. Ltd, Pune visited our Instrumentation and control Engineering department dated 30th December 2024. In this visit she discussed with all Faculty members shared her success story in Sales Executive as a Deputy General Manager. She showed keen interest in interacting with students and providing them any kind of help in future regarding Career and scope in Sales. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Ms. Sucheta Sonawane for her achievements and wished her all the best for her golden Career Ahead.



8. Alumni visit to Department : Ms. Minakshi Bachhav, 2018 pass out, Service Manager, State Bank of India, Jalgaon

It is a Proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2018 batch Ms. Minakshi Bachhav, 2018 passout, Service Manager, State Bank of India, Jalgaon for taking the time to visit our Instrumentation & Control Engineering Department. Your presence and insights are truly appreciated!.Dr. B. J. Parvat, Head, Instrumentation and Control Engineering Department and all facultymembers appreciated both the Faculty efforts in guiding faculty and students.



projects and engineers pvt Ltd, pune

It is a Proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2018 batch Mr. Asifali Contractor, 2020 pass out, business head BHARATPLUG at Virtuoso projects and engineers pvt Ltd, Pune for taking the time to visit our Instrumentation & Control Engineering Department. Your presence and insights are truly appreciated!



Department of Instrumentation & Control Engineering, MVPS's KBTCOE, Nashik

10. Vachan Sanskruti" initiative guided by the Directorate of Technical Education, Government of Maharashtra

As part of the "Vachan Sanskruti" initiative guided by the Directorate of Technical Education, Government of Maharashtra, our all students participated from **16th January 2025 to 24th January 2025** and read one book of their choice and submitted a **handwritten** review with the specified format to institute and further to DTE, Maharashtra.

The Key Objectives of the Initiative are:

- 1. To foster a reading habit among students.
- 2. To enhance critical thinking and analytical skills.

To align with the cultural literacy goals.



LERKARK TATA

1. SE/TE/BE Parents-Teacher Meet, Academic Year 2024-2025, Sem-I

As part of curriculum the Instrumentation and Control Engineering department has conducted parent-teacher meet on 22.02.2025. Head of department Dr. B. J. Parvat shared the activities and efforts taken by the department for the empowerment of the students and all stakeholders. Dr. A. R. Kulkarni, dean III, had brief the parents about their wards project assignment and its importance for their placements. Departmental T&P coordinator Mr. V. A. Ahirrao highlighted parents about the recent placements and upcoming placements drives. All faculty members have presented the student's progress with their parents. Few of the parent's representatives have given their valuable feedback about teaching learning process and overall efforts by the department for the student's achievements Many parents have given the feedback about excellent teaching-learning, good discipline, best efforts by the department for the 100% placement of all eligible students.





2. Alumni visit to Department: Nitesh Gupta, 2022 pass out, Network Engineer, Cognizant Technology, Pune

We extend our heartfelt thanks to our esteemed alumni Nitesh Gupta, 2022 passout, Network Engineer, Cognizant Technology, pune for taking the time to visit our Instrumentation & Control Engineering Department. Your presence and insights are truly appreciated!



3. Student's Achievements: Fusion 2K25.

It is a proud moment for the Department of Instrumentation and Control Engineering. We are delighted to extend our heartfelt congratulations to our Instrumentation and Control department's third-year students who won an award for their dance performance at Fusion 2K25 for their outstanding dance performance, which beautifully blended energy and cultural essence. This achievement is a testament to their dedication, hard work, and stage daring qualities. All the very best for their future career ahead.

4. Student's Achievements: All India 4th Rank at the National Entrepreneurship Challenge 2025 held at IIT Mumbai

It is a proud moment for the Department of Instrumentation and Control Engineering. We are delighted to extend our heartfelt congratulations to Ms. Suhanee Patil, a S.E. Instrumentation and Control Engineering student, along with Team E-CELL KBTCOE, has achieved an impressive All India 4th Rank at the National Entrepreneurship Challenge 2025 held at IIT Bombay. Competing against 900+ colleges from across India, Suhanee and her team delivered an outstanding performance in the finals, demonstrating exceptional teamwork, dedication, and entrepreneurial spirit. We congratulate Suhanee and Team E-CELL KBTCOE on this remarkable achievement!"



5. Alumni visit to Department: Ms. Tejasvini Jadhav, 2022 passout, Sales Manager, Almas tech Electronics, dubai

We extend our heartfelt thanks to our esteemed alumni Tejasvini Jadhav, 2022 passout, Sales Manager, Almas tech Electronics, dubai for taking the time to visit our Instrumentation & Control Engineering Department. Your presence and insights are truly



6. Industrial Visit at Johnson Controls (I) Pvt Ltd, Pune For BE Instru. & Control Engg. Students.

Total number of students-32

Staff Members - 04. Dr. S. H. Jadhav madam, Mr. S. D. Nikam sir, Mr. V. A. Ahirrao sir, Mr. S. R. Pandit Sir

At Johnson Controls (I) Pvt Ltd, Pune, Third year Instrumentation & Control Engineering students got explored with various Building Management Systems, Understood the role of Instrumentation and Control in Building Automation Sector, got explored to various Communication Protocols like Bacnet, LON Protocols, Explored to design working of different BMS Systems, Fire Alarm Systems, Fire detection and Access Control Systems, different systems in HVAC. We visited Control Lab, HVAC Lab, BMS room, site/floor walk and got in-depth practical exposure to Building Automation Systems.





7. Campus Placement.

- 1. Pranav R. Patil is being placed in Artee Flow Controls
- 2.Komal S. Pingle is being placed in Reliance Industries Limited
- 3.Hetali Baviskar, Kishor G. Rao and Sujit R. Gadhe are being placed in ICT Solutions Pvt. Ltd., Pune
- 4.Pranav R. Patil and Disha Ahire are being placed in TOYO Engineering India Pvt. Ltd., Mumbai





8. Industrial Visit at Sahyadri Farms, Mohadi, Dist Nashik

For SE (Instru. & Control Engg.) Students.

Total number of students- 37

Staff Members - 1. Dr. S.H. Jadhav 2. Dr. Y. P. Patil 3. Ms. V. P. Shinde

On 20th February 2025, our SE Instrumentation and Control Engineering students visited Sahyadri Farms in Modadi, Nashik District. A total of 37 students and three staff members participated in this enriching experience.

Upon arrival, the students were welcomed by the Sahyadri Farms team and attended an insightful presentation on the farm's operations, focusing on the integration of instrumentation and control systems in modern agriculture. The team highlighted their sustainable practices, technology use, and community welfare efforts.

The guided tour included visits to greenhouses, packing stations, and control rooms, allowing students to observe the practical applications of their classroom learning. The students interacted with the industry experts, gaining valuable insights into the agricultural industry's challenges and

9. Expert Lecture on "Internet of Things"

Mr. S. D. Nikam, Assistant Professor Instrumentation Control Engineering, MVPS's KBTCOE, Nasik delivered a Value Added Skill Development Session on "Internet of Things" dated 13/02/2025 for Second Year Artificial Intelligence and Data Science Engineering Department students of MVPS's KBT COE Nasik. Sir started with basics of Internet of Things, Applications of Internet of Things in real world projects, and shared information about developing simple projects with Internet of Things. Sir elaborated Peripherals and their interfacing with 8086/8088. Sir motivated students to Contribute themselves in making their own real world projects This activity gave motivation and understanding to students regarding their role as an Engineer





10. Industrial Visit at Water Treatment Plant, Viholi, Nasik

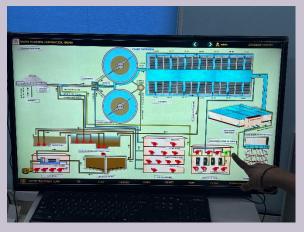
For TE Instru. & Control Engg. Students.

Total number of students- 30

Staff Members - 03. Dr. S.H. Jadhav, Mr. Santosh Lukare, Mr. Keshav Bodake

t NMC Water Treatment Plant, Viholi, Nasik, Third year Instrumentation & Control Engineering students got explored to Water Treatment Process such as Aeration, Chlorination, Segmentation, Almon Dosing, Filter bed, Instrumentation and Control, Sensors and Actuators, Filter bed back washing SCADA System, Controller, Valves and Overall Control Room of Water Treatment Plant.



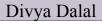


MARCH 2025

1. Campus Placement.

- 1.Divya Dalal, Kasturi Deshmukh, Abhishek Kalamkar, Abhijeet Satpute and Avadhut Zankar are being placed in Artee Flow Controls Pvt. Ltd.
- 2. Harsh Chaudhari and Kunal Fegade are being placed in R M automation Pvt. Ltd., Vapi, Gujrat







Kasturi Deshmukh







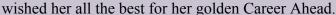
Coordinators.

2. 15 days Online FDP on "Industrial Automation"



3. Alumni visit to Department Monali Chavanke, 2017 passout, Sr. Software Engineer, Nagaroo Software Limited, Pune

It is a Proud moment for Department of Instrumentation and Control Engineering that Our Alumni of 2017 batch Ms. Monali Chavanke, 2017 passout, Sr. Software Engineer, Nagaroo Software Limited, Pune, visited our Instrumentation and control Engineering department dated 03rd March 2025. In this visit she discussed with all Faculty members and Students, shared her success story as an Engineer. She shared few ongoing projects of his company. She shared her experience while working in his organization. He showed keen interest in interacting with students and providing them any kind of help in future regarding Internship, Projects and Entrepreneurship. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Ms. Monali Chavanke for her achievements and





1. National Level Project Competition, "TECH EXPO-2025 organized by Department of Instrumentation and Control Engineering, PREC

I am truly privileged and honored to have the opportunity to serve as the Session Chair for the National Level Project Competition, "TECH EXPO-2025," which will be held on April 4, 2025, at 10:00 a.m. The event is being organized by the Department of Instrumentation and Control Engineering, in collaboration with the student chapter of the International Society of Automation (ISA) Pune Section, the Institution of Electronics and Telecommunication Engineers (IETE), and the Institution's Innovation Council (IIC), an initiative by the Ministry of Human Resource Development (MHRD).

This event is designed for Engineering, Polytechnic, and Science students and has received approximately 255 project submissions from across India. The primary goal of the event is to identify and showcase innovative and creative research projects undertaken by students. It also aims to encourage scientific exploration, foster inventions, and contribute to the overall development of students.





2. Campus Placement.

Atharva Wakchaure is being placed in Afility Engineering Pvt. Ltd., Mumbai



Atharva Wakchaure

3. Conduction of Virtual Lab Practical: Data Structures. Name of Virtual Lab: Data Structures - I. Under Branch: Computer and Science Engineering.

Department of instrumentation and control engineering have conducted virtual laboratory practical for second year students (Subject: Data Structures). Students of SE (Instrumentation & Control) performed the Virtual lab (Data Structures I) assignment for "Evaluating postfix expression" using postfix expression evaluation algorithm. Demonstration of the exercise along with explanation was given by subject teacher, Mr. V. A. Ahirrao. This exercise gave the students, complete understanding of the working of this algorithm. This session was coordinated and conducted by Mr. Vikas A. Ahirrao





4. Virtual Labs conducted for SE and BE students

Labs utilised:

- 1) IITD Physical Sciences Lab, experiment performed: Cumulative Distribution function.
- 2) a)Determination of Flouride in water b) Determination of Dissolved Oxygen in water c) Determination of Total Iron in water

Skills explored: Problem solving skills.

POs explored: PO5.





Department of instrumentation and control engineering have conducted virtual laboratory practical for second year students (Subject: control systems), this lab experiments was very user friendly which students have simulated and understand the concepts from control theory. This session was coordinated and conducted by Mr. S. B. Lukare (Course Coordinator)





7. Innovative Teaching-Learning Practice using "Virtual Lab"

Dr. Y.P. Patil, Faculty of Instrumentation and Control Engineering, conducted innovative teaching and learning using Virtual Lab. The simulation experimentation of 1. Design of 1-bit and 2-bit comparator

2. Design and verify the 4- Bit Synchronous/ Asynchronous Counter using JK flip flop are performed during the session of two hours.





8. Participated in Four Day FDP on "Organizational Behavior: Individual Dynamics in Organization"

Dr. Y.P. Patil, Faculty of Instrumentation and Control Engineering, successfully completed a 12-week online Faculty Development Program (FDP) on "Organizational Behavior: Individual Dynamics in Organization" from January 2025 to April 2025. The FDP was organized by NPTEL-AICTE to enhance faculty members' understanding of individual dynamics in the workplace and their impact on effective management and organizational success.

This program helped faculty develop their personality, refine their professional skills, and gain deeper insights into organizational behavior, including the behaviors, attitudes, and interactions of employees within a workplace. Understanding these dynamics is essential for fostering a productive work environment and improving leadership effectiveness.



9. Innovative Teaching-Learning Practice using "Virtual Lab"

Mr. S. R .Pandit, Faculty of Instrumentation and Control Engineering, conducted innovative teaching and learning using Virtual Lab. The simulation experimentation of 1. Charactertics of Temperature Sensor (Thermocouple). Total 32 Students were present for the Virtual lab Experimentation.





10.Participated in Four Day FDP on "Organizational Behavior: Individual Dynamics in Organization"

Mr. S.R. Pandit, Faculty of Instrumentation and Control Engineering, successfully completed a 12-week online Faculty Development Program (FDP) on "Organizational Behavior: Individual Dynamics in Organization" from January 2025 to April 2025. The FDP was organized by NPTEL-AICTE to enhance faculty members' understanding of individual dynamics in the workplace and their impact on effective management and organizational success. This program helped faculty develop their personality, refine their professional skills, and gain deeper insights into organizational behavior, including the behaviors, attitudes, and interactions of employees within a workplace. Understanding these dynamics is essential for fostering a productive work environment and improving leadership effectiveness



11. Value Added Session on "Financial Management with Engineering" organized by Department of Instrumentation and Control for Audit Course VIII, Sem II, 2024-25

Ms. Wrushali V. Bhamare madam shared the importance of **Financial Management**. She briefed about various aspects of it like Earnings, Spending's, Salary Structure, Respect money, save money, Create a budget, Stave first, spend later, set financial goals first, start investing early, avoid debts, ensure protection against emergency, never pay from your salary account, review budget, Use 50/30/20 rule of money, understand financial objectives and understand the financial planning. How the students should act and handle money was explained with the support of some examples. Session ended with a eye-opening video. Ms. Wrushali V. Bhamare was felicitated by Hon. H.O.D. Dr. B. J. Parvat.





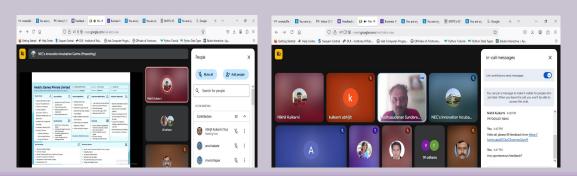
12. State level Technical Event TECHFEST (Mind Spark)-2025 (19/04/2025)

Department of Instrumentation & Control engineering has organized state level Technical event "TECHFEST (Mind Spark)-2025" on 19/04/2025. A mini hackathon to unleash innovation and solve it with automation. Teams would be given 3 real world problem statements focusing on how you would automate it and make work easier. Solutions to be submitted in ppts. The top 4 teams will receive a final challenge and the best wins. There were 26 groups registered in this event. Many organizations such as VIVA, Aim Engineering, fins Automation, Bright Engineering, Calibration, Juvik Solutions, Infinity Realtors, Sanal Nair's Engineering Academy, etc. have sponsored the event. The event concluded with certificate distribution from the hands of Mr. Sagar Chavan Sir, CEO and Owner of Bright Engineering, Nasik. Mr. S. D. Nikam Presided the Technical event TECHFEST (Mind Spark)-2025. Mr. Nikhil Ahire, Third year Instrumentation and Control Engineering student headed the Student President of the TECHFEST (Mind Spark)-2025. HOD, Dr. B. J. Parvat and all faculty members congratulated the students for organizing and participating in the technical event. All students enjoyed & organized the event well.

MAY 2025

1. Session on Business Model Canvas (BMC), Speaker: Mr. Nikhil Kulkarni, Head and Innovation Manager Innovation Incubation Center, Nashik Engineering Cluster (NEC).

A session on BMC was conducted by Industry Institute Interaction in association with IIC and NISP (Institute Innovation Council and NISP) – Level 1 session. Focusing on business models, 27 business models were explored with 9 key blocks of BMC: customer segments, value proposition, channels, customer relationship, revenue streams, resources, key activities (production/services), key partners, cost structure. Question answer session was also conducted. Additional keywords include: Maharashtra leading position in Fintech policies.



Department of Instrumentation & Control Engineering, MVPS's KBTCOE, Nashik

2. 12 weeks FDP on "Principles of Management"



3. Campus Placement.

Dipali Shingane is being placed in VRYSM Solutions Pvt. Ltd., Nashik.



Dipali Shingane

4. Alumni visit to Department Vijay Thakur, 2011 pass out, Senior Manager, Reliance Industries, Navi Mumbai

A Proud Moment for the Department of Instrumentation and Control Engineering
The Department of Instrumentation and Control Engineering proudly welcomed Mr.
Vijay Thakur, a distinguished alumnus from the 2011 batch and currently serving as
Senior Manager at Reliance Industries, Navi Mumbai, on 24th May 2025. During his
visit, Mr. Thakur engaged in an enriching interaction with faculty members and students.
He shared his inspiring journey as an engineer, insights into ongoing projects at his
organization, and valuable experiences from his professional career. Mr. Thakur expressed

3. Innovative Teaching-Learning Practice using "Virtual Lab"

Dr. S. H. Jadhav, Faculty of Instrumentation and Control Engineering, conducted innovative teaching and learning using Virtual Lab. Total 33 Students were present. The Virtual lab performed under Industrial Automation Laboratory. The simulation experimentation of:

1. Develop Graphical User Interface for the Fermenter Plant





Engineering, successfully participated in a six-day offline ATAL Faculty Development Program (FDP) on "Environmental Geotechnology: Advances and Sustainable Practices" held from June 16 to June 21, 2025. The FDP, organized by ATAL Academy, aimed to enhance faculty members' knowledge and awareness of the significance of geotechnology and its role in promoting sustainable practices. Participation in this program me to strengthen my professional competencies and gain valuable insights into the latest advancements in environmental geotechnology.



2.Participated in Six Day ATAL FDP on "Environmental Geotechnology: Advances and Sustainable Practices"

Dr. S.H. Jadhav, Faculty Member in the Department of Instrumentation and Control Engineering, successfully participated in a six-day offline ATAL Faculty Development Program (FDP) on "Environmental Geotechnology: Advances and Sustainable Practices" held from June 16 to June 21, 2025. The FDP, organized by ATAL Academy, aimed to enhance faculty members' knowledge and awareness of the significance of geotechnology and its role in promoting sustainable practices. Participation in this program me to strengthen my professional competencies and gain valuable insights into the latest advancements in environmental geotechnology.



3.Participated in Six Day ATAL FDP on "Environmental Geotechnology: Advances and Sustainable Practices"

Mr. S.D. Nikam, Faculty Member in the Department of Instrumentation and Control Engineering, successfully participated in a six-day offline ATAL Faculty Development Program (FDP) on "Environmental Geotechnology: Advances and Sustainable Practices" held from June 16 to June 21, 2025. The FDP, organized by ATAL Academy, aimed to enhance faculty members' knowledge and awareness of the significance of geotechnology and its role in promoting sustainable practices. Participation in this program me to strengthen my professional competencies and gain valuable insights into the latest advancements in environmental geotechnology.



Co-ordinators	Class
Miss. Siddhi Mukund Bodke	B. E.
Master. Krishna Sunil Jadhav	S. Y. B. Tech
Master. Satyam Yogesh Chaudhari	S. Y. B. Tech
Master. Sarthak Nitin Sonawane	S. Y. B. Tech