

INSTRUCON Newsletter

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XZSS

Academic Year
2023-24

Instrumentation & Control Engineering
MVPS's KBT College of Engineering, Nashik
<https://kbtcoe.org>

Institute Vision

- To be internationally accredited, Multidisciplinary, and Multi-collaborative 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- 2023

1. Campus Placement

1. Swapnil Waghchaure is being placed in Eastro Controls Systems Pvt. Ltd., Nashik.
2. Kasturi Gawale is being placed in iPAC Automation Pvt. Ltd., Pune.



Swapnil Waghchaure



Kasturi Gawale

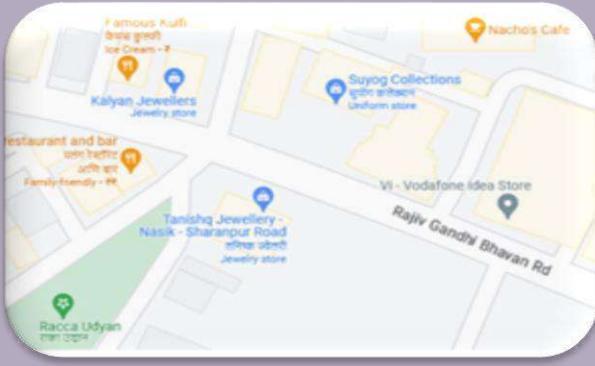
2. Induction Program (TE)

Department of Instrumentation & Control Engineering have organized Induction Program for Third year students on 15th July 2023. Mr.S.R. Pandit, Class Coordinator informed to all students for AY 2023-2 Semester-I, Third year will start from July 10, 2023, guided about courses taught in this semester, importance of courses and informed about subject teachers. Dr. B. J. Parvat, HOD discussed about attendance, admission process, rules and regulations, training & placement related activities, rules, choices filling. Dr. A. K. Patil discussed about importance of outcome based education, program outcomes, program specific outcomes, program educational objectives and how it is implemented in the department, importance about feedbacks. Dr. Y. P. Patil discussed in detail about Internal Quality Assurance Cell (IQAC), its functions, efforts taken by staff members for development of quality culture in academics, roles and responsibilities of every staff and student. Mr.S. B. Lukare discussed about the efforts taken by students during their academics, along with subject Introduction. The meeting concluded with thanks to the HOD and other present members and students .



3. Capture of a common dangerous practice used by food shops

The Food and Drug Administration (FDA) in Maharashtra has issued an order, asking food vendors not to wrap any eatables in newspapers while selling them to customers as the ink used for printing is harmful and toxic [1]. Chronic exposure to printing ink is connected to leukemia, multiple myeloma, non-hodgkin's lymphoma, MDS (Myelodysplastic syndromes) are a rare group of disorders in which your body no longer makes enough healthy blood cells. You might sometimes hear it called a “bone marrow failure disorder.”) and other diseases because, historically, many common solvent-based printing inks contained dangerous amounts of benzene. Benzene is a carcinogenic aromatic hydrocarbon that poses significant health risks. The International Agency for Research on Cancer (IARC) classifies benzene as a known carcinogen. Examples of other known carcinogens include asbestos, plutonium, and tobacco [2]. Even use of aluminum foil is bad [3]. Inspite of all these dangerous, food sellers do keep their items on newspapers as it absorbs additional oil! **This is a serious problem and it is identified all over Maharashtra. In the mage is a proof that such practice is alive.**



AUGUST- 2023

1. Online webinar by MathWorks on AI with Model-Based Design: Virtual Sensor Modeling.

In this session, I understand how to develop virtual sensor models using feedforward neural networks, LSTMs, decision trees, and other AI techniques. Using the example of BMS SOC estimation, I learned how to integrate AI models into Model-Based Design, so that we can test our design using simulation and implement it on an NXP S32K3xx board using automatic code generation. I saw how to evaluate and manage AI tradeoffs that span from model accuracy to deployment efficiency.

Highlights

- Designing and training machine learning components with Statistics and Machine Learning Toolbox
- Designing and training deep learning components with Deep Learning Toolbox
- Importing trained TensorFlow models into MATLAB
- Integrating machine learning and deep learning models into Simulink for system-level simulation
- Generating library-free C code and performing PIL tests.





2. Online National TPO Conclave 2024

The conclave sessions aimed at helping colleges navigate 2024 hiring better by giving the exposure to Industry leaders. Also details of how Capabl aims at helping College ecosystem be world-class.

3. Alumni visit to Department

Mr. Digvijay Kanoje, Assistant Manager, Oriental Insurance CO. Ltd, Ms. Sonam Jagtap, Data Management Executive, Patco Precisions Components Pvt Ltd. (Pass out of 2015 batch)

Mr. Digvijay Kanoje, Assistant Manager, Oriental Insurance CO. Ltd, Ms. Sonam Jagtap, Data Management Executive, Patco Precisions Components Pvt Ltd visited our department of Instrumentation & Control Engineering dated 05th August 2023. In this visit they shared their success story for getting job in Government sector & MNC. They shared few ongoing projects of their company. They shared her experience while working in their organization. They showed keen interest in interacting with students and providing them a kind of help.





4. Monsoon Premier League (Cricket event) at College level. Organized by KBTCOE under the guidance of our Sports Director, Dr. Kare sir.

Instrumentation & Control Engineering student have won the Monsoon Premier League (Cricket event) at College level. Monsoon Premier League is Organized b KBTCOE under the guidance of our Sports Director, Dr. Kare sir. In this tournament, total 07 teams participated and Final match happened between Instrumentation and Control engineering Versus Computer Engineering. Hon.H.O.D. Dr. B. J. Parvat sir along with faculty members Congratulated entire team along with Team Captains Mr. Sudarshan Pangam and Vice-Captain Mr. Shubham Patil.



5.Practical demonstration on " Disc on Pin Apparatus " organized by MVPS's KBT College of Engineering, Nasik Subject: Automotive Instrumentation

Our Final year (B.E) Instrumentation & Control Engineering students got hands on practice and practical demonstration of “Disc on Pin Apparatus” on 12/08/2023 from Mr. Dnyaneshwar Kushare, Assistant Professor Mechanical Engineering Department, MVPS'KBT, COE, Nasik. Students experienced about the Speed sensor, Load sensor, wear sensor and Frictional force measurement sensor interacting with the DAC Card, how to do the programming the Disc on Pin Apparatus. Students experienced about windocom software by Lab view. Students learnt about the application of Sensors in Automotive Instrumentation along with role of Lab view Software.



6. Expert Session on "Emerging Trends and Role of Embedded systems in Automotive sector" organized by Department of Instrumentation and Control under Instrumentation & Control Student's Association

Mr. Prajwal Joshi, Embedded Engineer, APTIV TCI, Bengaluru, India, delivered an Expert Session on “Emerging Trends and Role of Embedded systems in Automotive sector to TE & BE students dated 12nd August 2023. He focused on Important aspects like Different Domain in Embedded system, Programming languages in Embedded, Micro-Controller family, ADAS, Advanced Driver Assistance system, Emerging Trends: Electric vehicles, Shared mobility, autonomous vehicles, Vehicle electrification, connected cars, Advanced safety. Hon. Head of Department Dr. B. J. Parvat and all faculty members wished him all the very best for his golden career. ahead.





7. Expert Session on "Evolution of Emerging Automotive Instrumentation and Embedded systems in E- Vehicles organized by Department of Instrumentation and Control under Instrumentation & Control Student's Association (ICONs)

Mr. Shekhar Borse, C.E.O, Borse Automotive Pvt Ltd., delivered an Expert Session on “Evolution of Emerging Automotive Instrumentation and Embedded systems in E-Vehicles to TE & BE students dated 17nd August 2023. He focused on Important aspects like Success story of Borse Automotive, Journey of an Entrepreneur, Electric Power Steering, Autonomy level , ECU, ADAS system, swayata robotics, Role of MATLAB,, CAN Protocols in Automotive sector, Different Domain in Embedded system, Programming languages in Embedded, Micro-Controller family, ADAS, Advanced Driver Assistance system, Emerging Trends: Electric vehicles. Sir also gave an opportunity to visit Borse automotive and provide Internship to students. Hon. Head of Department Dr. B. J. Parvat and all faculty members wished him all the very best for his golden career ahead



8. Expert Session on "Success story to USA along with Industry requirements from fresh Engineering graduate" organized by Department of Instrumentation and Control under Instrumentation & Control Student's Association (ICONs)

Mr. Mayur Sakhare, Control Engineer, ATLAS Copco, comptex, LLC, USA delivered an Expert Session on **“Success story to USA along with Industry requirements from fresh Engineering graduate** to TE & BE students dated 18th August 2023. He focused on Important aspects like Success story of himself from CEAT Tyres Pvt Ltd, Nasik to Atlas Copco, USA. He focused on to look at everything you get as an opportunity. Convert the opportunity in to Success. Get involved in every small things, focus on fundamentals, grap the opportunity. Everything is possible, only thing you should work hard for the same. He also assured to provide online sessions on Instrumentation and Compressors to students, guide students in their project work and help the department for Placement. Hon. Head of Department Dr. B. J. Parvat and all faculty members wished him all the very best for his golden career ahead.

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9. Value Added Session on "Startup India" organized by Department of Instrumentation and Control under Instrumentation & Control Student's Association (ICONs)

Mr. Shreekant Patil, Chairman, NIMA Committee, Startup India, Mentor, Nasik.. Delivered a Value Added Session on "**Startup India**" to TE & BE students dated 22nd August 2023. He focused on how idea is converted in to Business model, Various stages of mentoring like Ideation, Validation, Registration, Seed Funding, Government Schemes, Innovative Challenges, Software Testing park of India. Sir also emphasized on Important skills required for Startup like Self Awakening, Communication, Empathy, Creativity, Problem solving, Decision making, Interpersonal relation, Critical Thinking, Stress management. Hon. Head of Department Dr. B. J. Parvat and all faculty members appreciated sir's efforts in guiding faculty and students.



10. Innovative Teaching Method: Role Play .

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 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 05 Students) was assigned the Role Play on “Demonstration of four stroke Spark Ignition (S. I) Engine” – Team Leader was Mr. Jayesh Ahirrao
- Group B (Total 05 Students) were assigned the Role Play on “Demonstration of ADAS System, its working with Application”. – Team Leader was Ms. Khushi Datur
- Group C (Total 05 Students) were assigned the Role Play on “Demonstration of Compression Ignition (C.I) Engine”. – Team Leader was Ms. Savi Khairnar
- Group D (Total 04 Students) were assigned the Role Play on “Demonstration of Accident Prevention using camera as sensor”. – Team Leader was Mr. Mustafa Shaikh.

Complete working of Compression Ignition Engine, Spark Ignition Engine, and Working of Sensor with application, Working of ADAS System, Advanced Driver Automatic System, Demonstration of Accident Prevention using camera as sensor was carried out through Role play. Then Students were assigned the role of: Air filter, Inlet Valves, Fuel Injectors, Exhaust Valves, Piston & Crank shaft, Combustion Chamber, Connecting rods, Carburetor, Spark Plug, Sensor, and Controller. All four groups executed very well the Role Play. This is how every student plays his/her role.



Group A: Demonstration of four stroke Spark Ignition (S. I) Engine



Group B: Demonstration of ADAS System, its working with Application



Group C: Demonstration of Compression Ignition (C.I) Engine

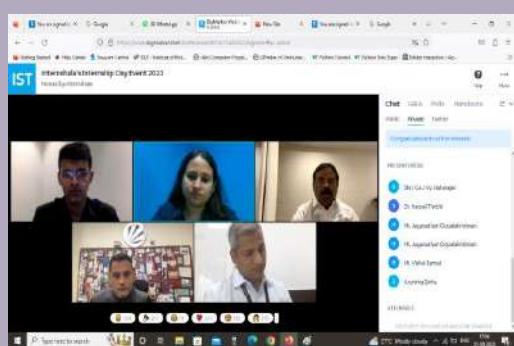
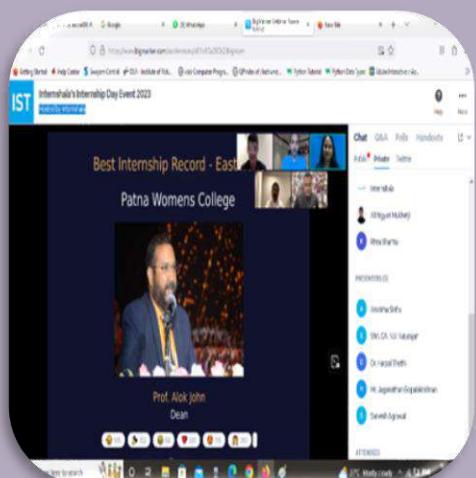


Group D: Demonstration of Accident Prevention using camera as sensor

11. Social Activity: Project Bandhan " organized by MVPS's KBT College of Engineering, Department of MBA, Nasik.

Our Third year (T.E) Instrumentation & Control Engineering students carried out the Social Activity: Project Bandhan "Rakhi making activity from Bamboo and natural things. They trained the students at sir Different Ashram schools They covered total Six Ashram Schools in Pet Taluka and Dindori, Nashik.





10. IST Internshala (IST Institute of Science and Technology)

Internshala (An AICTE initiative) organized this event of the year online. It was about progress of internships throughout the India. The program included award ceremony, panel discussion and question answer session. Zonal awards were distributed, in West Zone – Dhole Patil COE was awarded for best participation in Internships. State level award in Maharashtra was given to Thakur College of Science and Commerce Mumbai. Keywords : Generative AI, Soft skills, Programming skills, simulated environment with companies, digital foot prints, collaborative , quick thinking, FE exposure to industries. Panel discussion : by Mr. Vishal Bansal, Ms. Arunima Sinha, Dr. Harpal Reddi, CA Mr. N. B. Natrajan.

12. Induction Program (SE)

Department of Instrumentation & Control Engineering has organized Induction Program for second year students on 21st August 2023. Firstly, Goddess Saraswati and Chatrapati Shivaji Maharaj Pratima poojan was done. Mr. V. A. Ahirrao, Class Coordinator welcomed all students and explained the purpose of induction program. Dr. B. J. Parvat, H. O. D. shared with the students about attendance, admission process, rules and regulations, training & placement related activities, rules. Dr. A. R. Kulkarni guided students about Universal Human Values with examples. Dr. A. K. Patil discussed about importance of outcome-based education, program outcomes, program specific outcomes, program educational objectives and how it is implemented in the department, importance about feedbacks. Dr. Y. P. Patil discussed in detail about Internal Quality Assurance Cell (IQAC), its functions, efforts taken by staff members for development of quality culture in academics, roles and responsibilities of every staff and student. Mr. S. D. Nikam guided students related to co-curricular and extra- curricular activities. Mr. V. A. Ahirrao guided about courses taught in this semester, importance of courses and introduced all subject teachers. The program concluded with thanks to H.O.D. and other present members, and students.

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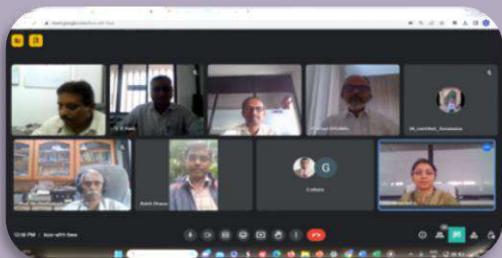


14. Departmental Advisory Board (DAB) Meeting

Members Present: Dr. B. J. Parvat, Dr. Omprakash Kulkarni, Mr. Pralhad Dhumal, Mr. Rohit Dhane, Dr. N. S. Nehe, Parent representatives, students representatives and all Instrumentation staff members and student representatives etc. (Total participants: 15)

In the Instrumentation and Control department, a Departmental advisory board meeting was held on 5th August 2023. In the meeting, Industry experts suggested that students should work on the industry problems and present it in technical events. power electronics, especially semiconductor devices must be studied by the students. Electrical vehicles is a flourishing field and are necessary for “Make in India”. Multidisciplinary courses that must be done by students.

In the Instrumentation and Control department, a Departmental advisory board meeting was held on 5th August 2023. In the meeting, Industry experts suggested that students should work on the industry problems and present it in technical



SEPTEMBER- 2023

1. As a program expert for NBA Mock of Instrumentation & Control Engineering at Dr. D.Y. Patil Institute of Technology, Pune on 12/09/2023 at 10:00 am. Onwards.

Dr. D.Y. Patil Institute of Technology, Pune invited Dr. B. J. Parvat as an expert for NBA mock of Instrumentation and control Engineering program. In this Mock, initially He has explained requirement of NBA and its benefits for institute. After that, he gone through presentation of respective department head and given suggestions for better and effective of presentation. After that conducted meeting with program faculty members and verified their respective criteria files and course files. Whenever required, suggestions are given them. After lunch, he visited laboratories to see equipment adequacy, conduction of respective lab sessions, verified criteria-1,3 files and checked all evidences for attainment of Pos. Also verified evidences and project reports for attainment of respective POs and PSOs. Finally conducted exit meeting and given required suggestions.



2. Visit of Shri. Jubil Mahadevan sir, Director, Domtech Robotics and Automation, Nasik to MVPS's KBT, COE, Department of Instrumentation and Control Engineering, under Industry Institute Interaction.

Mr. Jubil Mahadevan sir, Director, Domtech Robotics and Automation, Nasik visited to MVPS's KBT, COE, Department of Instrumentation and Control Engineering, under Industry Institute Interaction on 01st November 2023. All faculty members got explored with current going projects on Robotics and Automation, Home Automation, Agriculture Automation, Industrial Automation, Sir also assured to assist students for their mini projects, Project work, providing Internship and helping our department for the placements.



3. Chess Championship at SPPU's Inter College Chess Tournament under the guidance of our Sports Director, Dr. Kare sir. (12-09-2023)

Final Year Instrumentation & Control Engineering student Mr. Shubham Patil along with his team mates have won the Chess Championship at SPPU's Inter College Chess Tournament. Hon.H.O.D. Dr. B. J. Parvat sir along with faculty members Congratulated Shubham and his team mates for the achievement



4. Value Added Session on "Personality Development and Scope of Instrumentation and Control Engineering in today's era" organized by Department of Instrumentation and Control under Instrumentation & Control Student's Association (ICONs)

Mr. Yuvraj Savant, Principal and Technical Head, LumiraDx, Mumbai delivered a Value Added Session on **"Personality Development and Scope of Instrumentation and Control Engineering in today's era"** to SE, TE & BE students dated 23th September 2023. He focused on to Motivate students and make them aware about the importance of Personality Development. To Explore students about the scope and career in Instrumentation Engineering in today's era. He also explored students with the basic skills required to acquire something in the world, Importance of Time Management, how to prioritize the tasks effectively Hon. Head of Department Dr. B. J. Parvat and all faculty members appreciated sir's efforts in guiding faculty and students



Picture1: Mr. Yuvraj Savant delivering his session



Picture2: Group Photo with Yuvraj Savant Hon. H.O.D Dr. B. J. Parvat, , Staff members and students

5. Visit of Shri. Rao sir, Director, Bharat Wires Ropes Ltd, Nasik and Shri. Shirude Sir, Purchase Manager, Bharat Wires Ropes Ltd, Nasik to MVPS's KBT, COE, Department of Instrumentation and Control Engineering, under Industry Institute Interaction.

Hon. Shri. Rao sir, Director, Bharat Wires Ropes Ltd, Nasik and Hon. Shri. Shirude Sir, Purchase Manager, Bharat Wires Ropes Ltd, Nasik visited to MVPS's KBT, COE, Department of Instrumentation and Control Engineering, under Industry Institute Interaction dated 22nd September 2023. It was fruitful visit and the Industry Personal decided to finalize 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 Barat Wire Ropes Ltd. 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. Rao sir and Shri. Shirude sir for the interaction and sparing is valuable time.



6. Innovative Teaching Method: Role Play.

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 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 09 Students) was assigned the Role Play on “Demonstration of Electroencephalogram” – (EEG). Team Leader was Mr. Pranav Sanjay Patil. Students were assigned below Roles: Revati- Doctor, Akash- Patient, Pranav- Brother, Amol- Saver, Gayatri – Common People, Akshata- EEG Specialist, Disha- Narrator, Neha-Narrator, Shivani- Nurse.
- Group B (Total 09 Students) were assigned the Role Play on “Demonstration of Electrocardiogram”. – ECG. Team Leader was Ms..Sae Palekar. Students were assigned below Roles: Sae – Doctor (Trainee), Divya- Nurse, Rajashree- Doctor, Nachiket- Display, Parth- Narrator, Neha – Patient (sports person), Abhishek- Character Explanation, Harsh- Friend of Patient, Komal – B. P Measurement Expert

Team Leader was Ms..Tejasvi Kshirsagar. Students were assigned below Roles:

Tejasvi – Narrator, Kasturi- Blood, Sanket- Left Ventricle, Dipali- Heart Layers, Kishore- Right Ventricle, Harsh – Lungs, Bhavana- Right Atrium, Sudiksha- Left Atrium. Character Explanation, Harsh- Friend of Patient, Komal – B. P Measurement Expert. All the three groups executed very well the Role Play. This is how every student plays his/her role.

- Group C (Total 08 Students) were assigned the Role Play on “Demonstration of Cardiovascular System”. – Heart Structure. Team Leader was Ms..Tejasvi Kshirsagar. Students were assigned below Roles: Tejasvi – Narrator, Kasturi- Blood, Sanket- Left Ventricle, Dipali- Heart Layers, Kishore- Right Ventricle, Harsh – Lungs, Bhavana- Right Atrium, Sudiksha- Left Atrium. Character Explanation, Harsh- Friend of Patient, Komal – B. P Measurement Expert.

All the three groups executed very well the Role Play. This is how every student plays his/her



Group A: Demonstration of Electroencephalogram



Group B: Demonstration of Electrocardiogram



Group C: “Demonstration of Cardiovascular System”.
-Heart Structure.

7. Mr. Aadesh Kadam, GET (Graduate Engineer Trainee), Artee Flow Control Pvt Ltd, Pune 2022 batch)

Mr. Aadesh Kadam, GET (Graduate Engineer Trainee), Artee Flow Control Pvt Ltd, Pune visited our department of Instrumentation & Control Engineering dated 18th September 2023. In this visit he shared his success story for getting job in **Artee Flow Control Pvt Ltd**. He shared few ongoing projects of his company. He shared her experience while working in their organization. They showed keen interest in interacting with students and providing them any kind of help in future.



8. Campus Placement.

Atharva Aher, Jayesh Ahirrao, Harshali Ahirrao, Darshana Bhoi and Khushi Datir are being placed in Emerson Export Engineering Company, Nashik.



Atharva Aher



Jayesh Ahirrao



Harshali Ahirrao



Darshana Bhoi



Khushi Datir

9. Industrial Visit at Advantage Nashik foundation, Traffic Education Park, For SE (Instru. & Control Engg.)

Students. Total number of students- 34 .

Staff Members - 1. Mr. V. A. Ahirrao 2. Mr. S. R. Patil.

Ms. Vrushali Jadhav madam from traffic education park conducted a session and explained the position of Maharashtra and Nashik district in number of road accidents those took place in last few years. She discussed about the causes of accidents and their effects on an individual, family society and country. She then guided about the rules and regulations laid by RTO and the fine if someone breaks the rules. Also, she talked about the changing scenario on roads in terms of number of vehicles and traffic jam situations. Being youths what can be done to minimize road accidents. Then through videos of true stories were played to give alarming message to students. Mr. Sonali Pawar, then taken students for park visit where she explained the various markings on roads, their meaning and other symbolic boards those may be present on roads.



10. One day workshop on “Design Thinking” organized by E&TC Department of KBT COE, Nashik

Department of E&TC from MVPS's KBT COE organized one day workshop on “Design Thinking”. Total 13 students of SE & TE from department of Instrumentation & Control Engineering had participated in the workshop.

During the workshop concept of design thinking process and its importance for engineers was explored. Group activity (multidisciplinary groups) for problem statement given was conducted and different groups are formed to think, solve, demonstrate design solutions. Students learned a different perspective through this workshop.



11. Faculty Participation STTP by NITTTR's, Bhopal

Dr. Y.P. Patil, Faculty of Instrumentation and Control Engineering, has participated in Five Day's online Short Term Training Program on “ICT-TOOLS FOR TEACHING LEARNING” organized by the National Institute of Technical Teacher's Training and Research, Bhopal in association Ministry of Education, Govt. of India during 31st July 2023 to 04th August 2023.



12. Conducted Academic and administrative Audit of AY 2022-23 in the Department of Instrumentation & Control Engineering, Nashik

Department of Instrumentation & Control Engineering conducted an Academic & Administrative Audit (External) of AY 2022-23 on Saturday, 16th September 2023, from 10:00 a.m. onwards. For this audit, PAC members Mr. A.P. Meshram, Associate Professor in E&TC, and Dr. A.M. Bhoi, Assistant Professor from the Civil Department of MVPS's KBT College of Engineering, Nashik, were present. For the audit, all the faculty & staff members of the department were also present. PAC members checked and verified all the documents as per the list and gave the following suggestions for improvement:

1. Need to improve research grants, projects.
2. We need to organize FDP once per semester. It can be organized online for six days
3. Collect more evidence about placement, higher studies
4. Faculty course files updating
5. Batchwise attainment report preparation
6. Faculty need to work as a resource person



Mr. A.P. Meshram, Dr. A.M. Bhoi, Dr. A.R. Kulkarni (Incharge Head), Dr. Y. Patil, Dr. A.K. Patil, Mr. S.R. Pandit, Mr. S.D. Nikam, Mr. V.A. Ahirrao, Mr. S.B. Lukare, and all the non-teaching staff members during the AAA audit (internal) of AY 2022-23 held on 16-09-2023.

13. "Blood Donation camp" organized by NSS of Maratha Vidya Prasarak Samaj, KBT COE, Nashik

Maratha Vidya Prasarak Samaj, KBT COE, Nashik, and Dr. Vasantrao Pawar Medical College, Nashik, organized a "Blood Donation Camp" on Engineers Day held on **15th September 2023**. The engineering community celebrates Engineer's Day annually at KBT COE, along with all interested faculty members who donated blood. The camp's motto was to create awareness in society to donate blood. Department of Instrumentation and Control Engineering faculty, Dr. Y.P. Patil (Dept. NSS Coordinator) also participated in the blood donation camp.



14. Installation, wiring and testing of "Solar power system for direct DC light in The Principal Cabin"

Members:

Under the guidance of Dr. Satish R. Devane along with the faculty Dr. Ashwini Patil, Students: Abhijit Satpute, Akash Bodake, Parth Mulay, Atharva Waghchoure, Neha Saraf, Pranav Patil, Pavitra Nair, Bhavana More, Komal Pingale, Sanket Jori

The student's team of third-year Instrumentation and Control Engineering worked on a project "Solar power system for direct DC light in The Principal Cabin". Students worked on the required circuitry for direct DC light in the cabin which will remain on in the daytime. This project will increase the efficiency of solar energy. As per the problem statement provided by the Principal Dr. S. R. Devane that there is always the requirement of light in the daytime in the cabin. He suggested using solar DC light without affecting the aesthetics of the cabin can reduce the light bill, and get a sustainable energy solution. Students installed solar panels, implemented the wiring and fitting with the help of College Electricians Mr. Jadhav and Mr. Kapil. The project is appreciated by The Principal sir and all the departmental HODs and faculty members



15. Installation, wiring and testing of "Off-Grid Solar Power System for School"

Dr. Ashwini Patil (Coordinator), Mr. Viraj Sonawane, Mr. Thakare Rahul S., Mr. Yogesh H. Palve, Ms. Madhura Aher and students team of 10, Abhijit Satpute, Akash Bodake, Parth Mulay, Atharva Waghchoure, Neha Saraf, Pranav Patil, Pavitra Nair, Bhavana More.

The Unnat Bharat Abhiyan (UBA) students' team along with the faculty of the Instrumentation and Control Engineering department installed an Off-Grid Solar Power System for School, at Janata Vidyalay, Matori, Nashik.

The ground floor of the school requires lights and fans for the whole time during school. In the case of load shading, they face severe problems with lights. UBA team of faculty and students identified this problem and got the proposal approved by Rural Energy System SEG and funded by the National Coordinating Institute UBA 2.0 (IIT Delhi) for the same. On 16th Sept UBA student team finished the complete installation, wiring and commissioning of the project under the guidance of UBA faculty and The Principal Dr. S. R. Devane. Students also worked on all the procurement, and the negotiation activities.



OCTOBER- 2023

1.Campus Placement

1. Prapti Gundecha and Sajid Shaikh are being placed in Johnson controls (India) Pvt. Ltd., Pune.

2. Savi Khairnar, Anuja Nalkar, Abhishek Bankar, Onkar Dhawale, Nilesh Uphade and Harshad Udamale are being placed in ICT Solutions Pvt. Ltd., Pune.



Prapti Gundecha



Sajid Shaikh



Savi Khairnar



Anuja Nalkar



Abhishek Bankar



Onkar Dhawale



Nilesh Uphade



Harshad Udamale

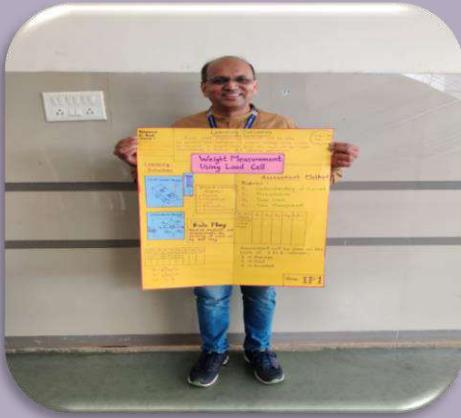
2. To motivate students for GATE examination.

Mr. Sanjay Dusane (Deputy Commissioner, Divisional Commissioner Office, Nashik) donated total 48 books of GATE in Instrumentation Engineering. These books will be very helpful for the students for GATE exam preparation as well as campus placement preparation.



3. Faculty Participation in International FDP on “Introduction to Innovative Pedagogis”

Mr. S. D. Nikam, Faculty of Instrumentation and Control Engineering, has participated in Three Day's Faculty Development Program (FDP) on **“Introduction to Innovative Pedagogis”** from 21st Oct. 2023 to 23rd Oct. 2023, organized by the Department of Maharashtra State MS-DEED & iiser, Pune.



4. Faculty Participation in Five Days FDP on “Digital Supply Chain” organized by NITTTR’s, Bhopal.

Dr. Y.P. Patil, Faculty of Instrumentation and Control Engineering, has participated in the Five Days Faculty Development Program on “**Digital Supply Chain**” organized by the National Institute of Technical Teacher’s Training and Research (NITTTR), Bhopal, from 09th October 2023 to 13th October 2023.



5. Faculty Participation in International FDP on “Advanced Topics in Control System”

Dr. Y.P. Patil, Faculty of Instrumentation and Control Engineering, has participated in Three Day’s online International FDP on “**Advanced Topics in Control Systems**” from 26th Oct. 2023 to 28th Oct. 2023, organized by the Department of Electrical Engineering, K.K. Wagh Institute of Engineering and Research, Nashik in association with IET Nashik Local Network.



6. SPPU Zonal Research Level Avishkar Competition and Laghu Udyog Bharati Project competition.

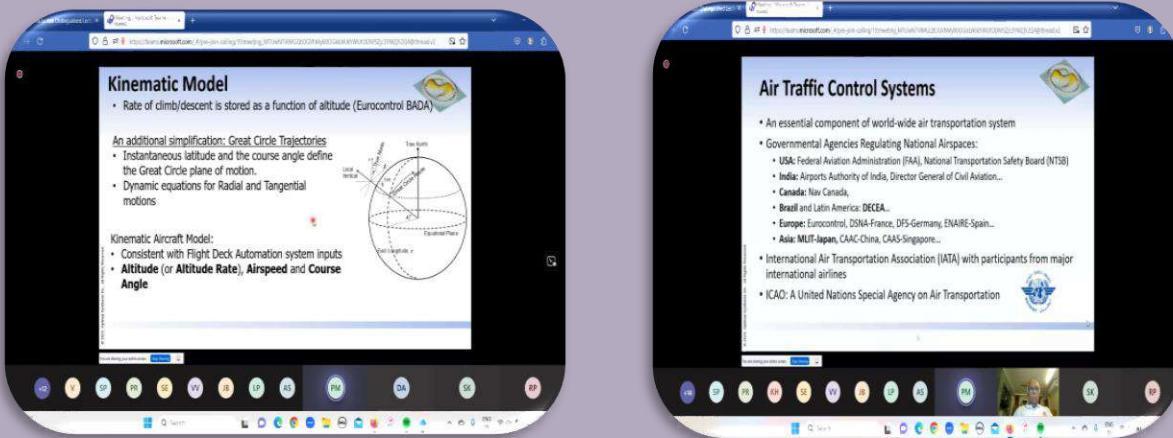
Students selected the topic related with study and implementation of insect identification for plants and trees. The research papers were identified on this topic. Then as per the direction of respected Principal Prof. Dr. Devane and Dean R&D Dr. Sonawane Sir (Mechanical Engg) and guide Dr. A. R. Kulkarni, these students worked on identifying X-ray of a sample. Further work is ongoing. Best wishes to this Team from KBTCOE.



Three students felicitated by Education Officer Prof. Dr. Lokhande at KBT COE, VP, Registrar, Dean R&D and HODs.

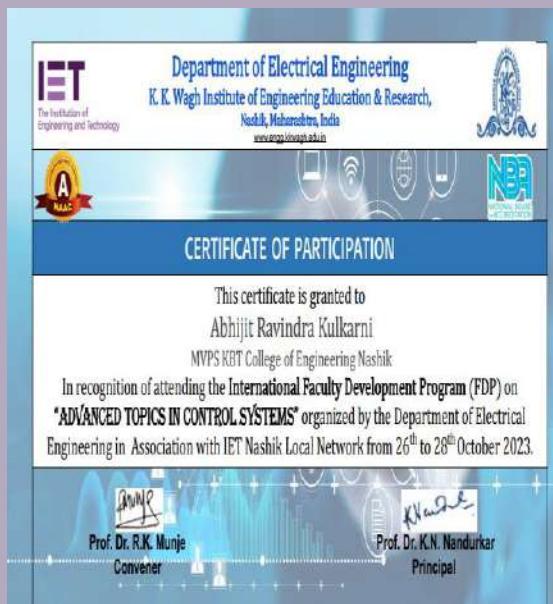
7. Distinguished Lecture Series (Lecture-29) by Dr. P. K. Menon on Modeling, Analysis and Control of the National Air Transportation System

The complex situation of National Air Traffic Control Systems are discussed. The complex situations include hill areas near runaways (which ideally shall not be their), prediction needs of air traffic monitoring and control ; challenges includes: crossover of planes, wind interruptions, delayed take offs and fuel wastage, other countries developments and projects undertaken in India, tall towers near air ports, real time limitations on take-off and landing velocities, kinematic models reducing DOFs were discussed by respected speaker Dr. Menon.



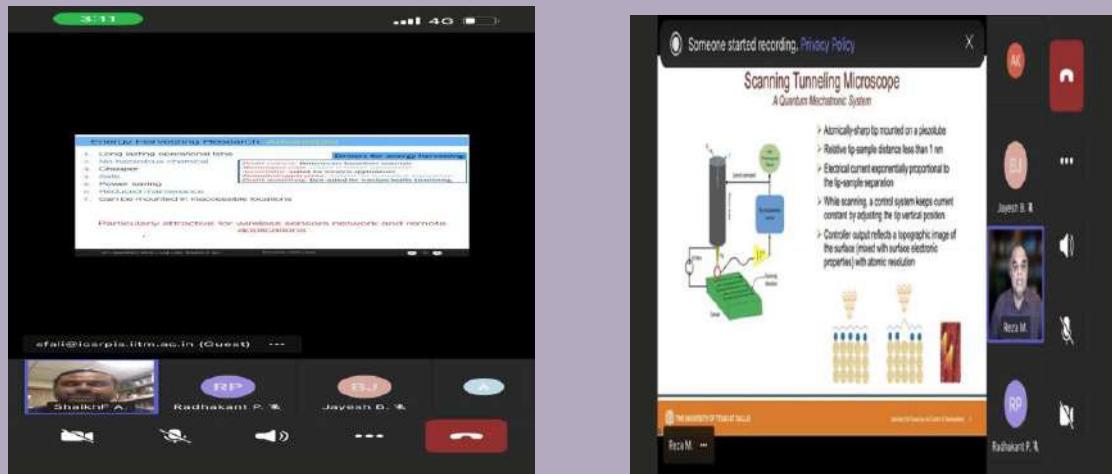
8. International FDP on Advanced Topics in Control System 2023-24

Explored about PLCs, Adaptive Control, Electric Drives, Fuzzy Logic, Stabilization of marine vessels. Discussions were about stability using Lyapunov Theorem, uncertainty in the system, Communication protocols in PLCs, PMSM motor drives, the mathematical relations between electric angle and mechanical angle with pole pairs.



**9. Via virtual conference platform two Technical Talks were organized and attended by
Dr. A. R. Kulkarni.**

The first tech talk discussed about experimental results of energy harvesting from piezo-electric sensors. The energy generated was in mW range. These sensors are not expected to generate power beyond 1 W. In another tech talk a Proportional and Integral Control is explored in a Scanning Tunneling Microscope and its associated phenomenon were discussed.



10. Three days Industrial training on DC Drives at FOX Solutions Pvt. Ltd., Nashik

Members Present: Two faculty members and 26 students Dr. Ashwini Patil, Mr. S. R. Pandit and 26 students.

Three days Industrial training conducted at FOX Automation Solutions PVT. LTD., Nashik for two faculty and 26 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.



11. Three days Industrial training on DC Drives at FOX Solutions Pvt. Ltd., Nashik Members Present: Dr. Ashwini Patil

Dr. Ashwini Patil attended Three days of Industrial training conducted at FOX Automation Solutions PVT. LTD at Nasik Engineering Cluster (NEC), Nasik. In training, the sessions on the basics of drives, electrical fundamentals, and hands-on practice including configuration and programming of DC Drive V90 were conducted. Every student and faculty worked on the drive programming and configuration part.



12. Faculty Participation in International FDP on “Advanced Topics in Control System”

Mr. S. D. Nikam Faculty of Instrumentation and Control Engineering, has participated in Three Day's online International FDP on **“Advanced Topics in Control Systems”** from 26th Oct. 2023 to 28th Oct. 2023, organized by the Department of Electrical Engineering, K.K. Wagh Institute of Engineering and Research, Nashik in association with IET Nashik Local Network.



13. Faculty Participation in International FDP on “Advanced Topics in Control System”

Mr. S. B. Lukare Faculty of Instrumentation and Control Engineering, has participated in Three Day's online International FDP on **“Advanced Topics in Control Systems”** from 26th Oct. 2023 to 28th Oct. 2023, organized by the Department of Electrical Engineering, K.K. Wagh Institute of Engineering and Research, Nashik in association with IET Nashik Local Network.



14. Value Added Session on " Industrial Interactions for Placements" organized by Department of Instrumentation and Control under Instrumentation & Control Student's Association (ICONs)

Mr. Bagyajit Kale , Senior Project Manager, FOX Solutions, Nashik. Delivered a Value Added Session on “**Industrial Interactions for Placements**” to TE & BE students dated 06th October 2023. He focused on to Motivate students and make them aware about the importance of Industry Interactions. To Explore students about the scope and career in Instrumentation Engineering in today's era. He also explored students with the basic skills required for Industrial Interactions, Importance of Time Management, how to interact with Industry Hon. Head of Department Dr. B. J. Parvat and all faculty members appreciated sir's efforts in guiding faculty and students.



15. Value Added Session on " Take Charge of our Time" organized by Department of Instrumentation and Control under Instrumentation & Control Student's Association (ICONs)

Mr. Ankur Warikoo , Co-founder of Nearby.com delivered an Online Value Added Session on “Take Charge of our Time” to SE students dated 27th October 2023. He focused on to Motivate students and make them aware about the importance of Time Management. To Explore students about about the implementation of Time Management Techniques in Professional as well as Personal Career. Sir focused on Time and Important techniques like 2 by 2 matrix regarding Important and Urgent things. Importance of Time Management. Hon. Head of Department Dr. B. J. Parvat and all faculty members appreciated sir's efforts in guiding faculty and students.



16. Value Added Session on " Positive Thinking and Personality Development" organized by Department of Instrumentation and Control under Instrumentation & Control Student's Association (ICONs).

Ms. Rupa Shinde, Counsellor, MVPS's KBT, COE Nashik. Delivered a Value Added Session on **"Positive Thinking and Personality Development** to SE students dated 17th October 2023. She focused to motivate students and make them aware about the importance of Positive Thinking. To Explore students about the scope and importance of personality development. To Explore students about the scope and career in Instrumentation Engineering in today's era. She also explored students about the things needed to achieve success in life, Reasons of Unhappiness, how to survive in today's external environment, to be positive what things to be done, how to remain positive in life always Hon. Head of Department Dr. B. J. Parvat and all faculty members appreciated madam's efforts in guiding faculty and students.



17. Parents meet

Members Present: Dr. B.J. Parvat, Dr. A. R. Kulkarni, Mr. Y. P. Patil, Dr. A. K. Patil, Mr. S. R. Pandit, Mr. S. D. Nikam, Mr. V. A. Ahirao, Mr. S. B. Lukare, Mr. S.R. Patil, Ms. J.S.Uphade, Ms. Shinde. Parents of SE, TE, BE Instrumentation &Control Engineering,

Total no. of participants: 27 parent's (SE, TE, BE)+ 12 Faculty

The parents meet started with the welcome speech of Dr.A.R. Kulkarni sir welcomed and thanks all the parents for their valuable presence. He briefs about importance of parent-teacher meeting for the continuous improvement process. He discussed various activities conducted by department and highlighted department strengths. He also requested all the parents to share your valuable feedbacks openly. Department felicitated all the placed students, toppers of department through the hands of their own parents. All Parents congratulated and thanks to department for taking many efforts on our children's for the overall improvement. All Parent's Congratulated department achieving good placement and good academic record. Parent's congratulated to department for best teaching-learning culture. Parent's Thanked to department for providing new technology upgradations by arranging various sessions and internships.

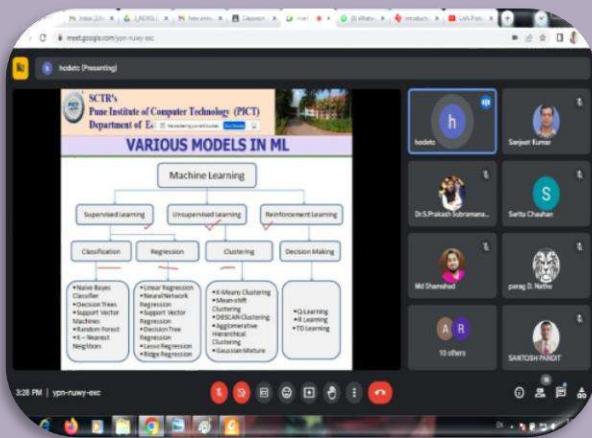
All the present parents interacted with department faculties and discussed about their wards. Also given valuable feedbacks to individual teachers

The meeting concludes with thanks from Dr. B. J. Parvat sir, Head of Department, Instrumentation and Control Engineering department.



18. Faculty Participation in Five Days FDP on “Digital Supply Chain” organized by NITTTR’s, Bhopal.

Mr. S. R. Pandit, Faculty of Instrumentation and Control Engineering, has participated in the Five Days Faculty Development Program on “**Digital Supply Chain**” organized by the National Institute of Technical Teacher’s Training and Research (NITTTR), Bhopal, from 09th October 2023 to 13th October 2023.



19. Industrial Visit at Borse Automotives, Nashik

For BE Instru. & Control Engg. Students.

Total number of students- 45

Staff Members - 02. Mr. S.R. Pandit, Mr. Keshav Bodake

At Borse Automotives, Nashik, Final year Instrumentation & Control Engineering students got explored with Borse Automotives, Nashik got aware of role of Instrumentation and Control in Automobile Industry got practically explored with Communication Protocols like CAN, OCPP Protocols, got demonstration with design working of Electric Vehicles in Automobile Industry. Students got circuit animation of two wheelers, got explored to softwares for displaying energy meter reading and circuit designing of EVSQ.



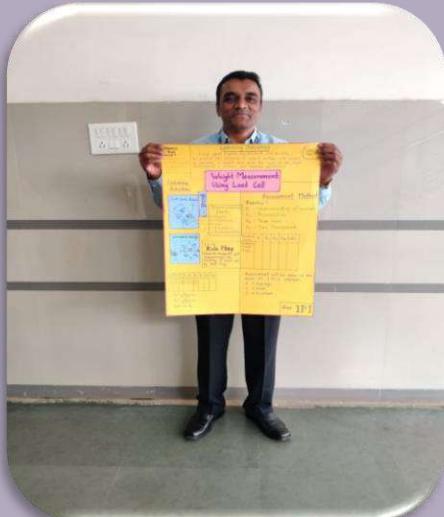
20. Faculty Participation in International FDP on “Advanced Topics in Control System”

Mr. S. R. Pandit, Faculty of Instrumentation and Control Engineering, has participated in Three Day’s online International FDP on “**Advanced Topics in Control Systems**” from 26th Oct. 2023 to 28th Oct. 2023, organized by the Department of Electrical Engineering, K.K. Wagh Institute of Engineering and Research, Nashik in association with IET Nashik Local Network.



21. Faculty Participation in International FDP on “Introduction to Innovative Pedagogis”

Mr. S. R. Pandit, Faculty of Instrumentation and Control Engineering, has participated in Three Day's Faculty Development Program (FDP) on “**Introduction to Innovative Pedagogis**” from 21st Oct. 2023 to 23th Oct. 2023, organized by the Department of Maharashtra State MS-DEED & iiser, Pune.



22. Three days Industrial training on DC Drives at FOX Solutions Pvt. Ltd., Nashik

Members Present: Mr. Santosh. R. Pandit

Mr. Santosh. R. Pandit attended Three days of Industrial training conducted at FOX Automation Solutions PVT. LTD at Nasik Engineering Cluster (NEC), Nasik. In training, the sessions on the basics of drives, electrical fundamentals, and hands-on practice including configuration and programming of DC Drive V90 were conducted. Every student and faculty worked on the drive programming ..anconfiguration part.



23. Faculty Achievement: Social Activity “Project Bandhan”

Mr. S. R. Pandit, Faculty of Instrumentation and Control Engineering, has actively participated in Project Bandhan Activity, Social Activity: Project Bandhan “Rakhi making activity from Bamboo and natural things. He trained the students at Different Ashram schools They covered total Six Ashram Schools in Pet Taluka and Dindori, Nashik.



24. Students Achievement: Social Activity “Project Bandhan”

Total 34 Students from Third Year Instrumentation and Control Engineering, has actively participated in Project Bandhan Activity, Social Activity: Project Bandhan “Rakhi making activity from Bamboo and natural things. They trained the students at Different Ashram schools They covered total Six Ashram Schools in Pet Taluka and Dindori, Nashik.



NOVEMBER – 2023

1. Expert Session for Students

It was an online expert session for BE Instrumentation and Control Engineering students who opted Data Analytics as Elective. Number of students participated: 18. Outside class participants 2. Contents explored: Case study of John Deere JDlink Connectivity. Challenges in data visualization, example timeliness, integrity, confusing color pallet, data quality. Big Data architecture, and their benefits. Indian industry those have real time data but actions taken offline.



2. Students' initial discussion on industry problem solving.

In these two visits students discussed problem to be solved with Mangesh Sir. Mangesh Sir discussed it with a drawing with students. here students Pavithra , Pranav and Abhijit , yesterday got opportunity to listen from Dean R and D Dr. Sonawane Sir (Mechanical). Key points- Show interest in industrial problems solving, create drawings on paper, implement it, this is a Continuous Improvement Process (CIP). He also wonderfully explained Shree Anand Mahindra Sir- feedback taking method and about Mahindra opening office in USA. During both discussions Dr. A. R. Kulkarni was present and initiated these two meets.



3. Identification of bees died in large number.

Sustainable development as per IEEE standards is: At its core, sustainable development is an approach to development that looks to balance different needs with an awareness of the environmental, social, and economic limitations we face as a society. Ohio State University has **Bee Lab Research**. Ohio University has become an affiliate of the Bee Campus USA program, designed to marshal the strengths of educational campuses for the benefit of pollinators. OHIO joined many other cities and campuses across the country united in improving their landscapes for pollinators. [\[https://www.ohio.edu/sustainability/ohio-university-becomes-affiliate-bee-campus-usa-0\]](https://www.ohio.edu/sustainability/ohio-university-becomes-affiliate-bee-campus-usa-0). In this scenario death of bees on such a large number is sad. We must apply technics to makes bees sustainable.



4. Conducted External Academic and administrative Audit of AY 2022-23

Department of Instrumentation & Control Engineering conducted an external Academic and administrative Audit (External) of AY 2022-23 on Saturday, 25th November 2023, from 10:00 a.m. onwards. The department head and faculty members were present for this audit. External auditor, Dr. S.G. Ghalme, Associate Professor & HOD in Mechanical Dept. from SITRC, Nashik, checked and verified all the documents as per the checklist and gave the following suggestions for improvement:

1. Need to improve research grants, projects
2. We need to organize FDP.
3. Need to collect curriculum feedback from stakeholders
4. Maintain separate records for cross-cutting issues
5. Add contact details of distinguished alumni
6. NSS records are also maintained in the dept.
7. Faculty publications need to be improved.

Add mapping of gap activities with their outcomes.



5. Expert Session on “Role of Software in Biomedical Instrumentation.”

Mr. Pushkar Shinde (Assistant Professor, Computer Engg Dept. MVPS's KBT COE Nashik) Motivated students and make them aware about the importance of Software in Biomedical Instrumentation. To Explore students about implementation of Software in Biomedical Instrumentation. Sir elaborated the Importance of Artificial Intelligence & how Artificial Intelligence works for Diabetes and Heart Disease Detection. He elaborated that standard data sheet is required and models need to be created with algorithms applied. Python, C- Sharp software's can be used. For the implementation of detection of Diabetes and Heart Disease



6. Value Added Session on " Emotional Intelligence" organized by Department of Instrumentation and Control under Instrumentation & Control Student's Association (ICONs)

Ms. Rupa Shinde, Counsellor, MVPS's KBT, COE Nashik. Delivered a Value Added Session on "Emotional Intelligence" to TE students dated 01st November 2023. She focused to motivate students and make them aware about the importance of Emotional Intelligence. To Explore students about the scope and importance of developing Emotional Intelligence. She made students to think for a parallel plan of Emotional Quotient while studying the regular academics studies. She also explored students about the things needed to achieve success in life, Reasons of Unhappiness, how to survive in today's external environment, to be positive what things to be done, how to remain positive in life always Hon. Head of Department Dr. B. J. Parvat and all faculty members appreciated madam's efforts in guiding faculty and students.



7. Value Added Session: Educational Opportunities Abroad after Engineering.

Mr. Amit Gore, Founder and Director, Akshay Study Abroad, Nashik and Mr. Hiren Panjwani, (Training Manager, Akshay Study Abroad), delivered a Value Added Session on “**Educational Opportunities Abroad after Engineering**” to SE, TE & BE students dated 31st November 2023. They focused on the popular study options like PG diploma, masters, MBA and Msc Management. The Purpose of studying abroad was lucidly elaborated by them. The various test needed like JEE, NEET, UPSC, TOEFL, UPSC/MPSC were discussed in the session. The other key points were where and why most students prefer to study abroad, which country does not require VISA. They made student's to seriously think for a parallel plan for higher studies while studying academic studies. Hon. Head of Department Dr. B. J. Parvat and all faculty members appreciated sir's efforts in guiding faculty and students.



9. Ms. Pooja Madane, Sr. Executive Projects, FOX Solutions, Nashik, Ms. Pooja Madane, Sr. Executive Projects, FOX Solutions, Nashik visited our department of Instrumentation & Control Engineering dated 02th November 2023. In this visit she shared his success story for getting job in **FOX Solutions, Nashik**. She shared few ongoing projects of his company. She shared her experience while working in their organization. She showed keen interest in interacting with students and providing them any kind of help in future.

9. Visit of Shri. Girish Kangane Sir, Director, Eastro Controls, Nashik to MVPS's KBT, COE, Department of Instrumentation and Control Engineering, under Industry Institute Interaction. Hon. Shri. Girish Kangane Sir, Director, Eastro Controls, Nashik visited to MVPS's KBT, COE, Department of Instrumentation and Control Engineering, under Industry Institute Interaction dated 10th November 2023. 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 Eastro Controls, 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. Girish Kangane Sir for the interaction and sparing his valuable time.



10. Visit of Shri. Mangesh Bhanage Sir, Director, HRRDC, Pvt. Ltd. Nashik to MVPS's KBT, COE, Department of Instrumentation and Control Engineering, under Industry Institute Interaction

Shri. Mangesh Bhanage Sir, Director, HRRDC, Pvt. Ltd. Nashik visited to MVPS's KBT, COE, Department of Instrumentation and Control Engineering, under Industry Institute Interaction dated 22th November 2023. It was fruitful visit and the Industry Personal explored all the faculty members with the National Education Policy 2020. He said that NEP is more concerned with skills. If students are able to apply engineering concepts (Example Contour Integration to calculate Volume of 3D Irregular section) complex engineering problems can be solved. Student' should ask questions in depth to gain knowledge. Dr. B. J. Parvat, HOD, Instrumentation and Control Engineering department along with Faculty members appreciated Shri. Mangesh Bhanage Sir for the interaction and sparing his valuable time.



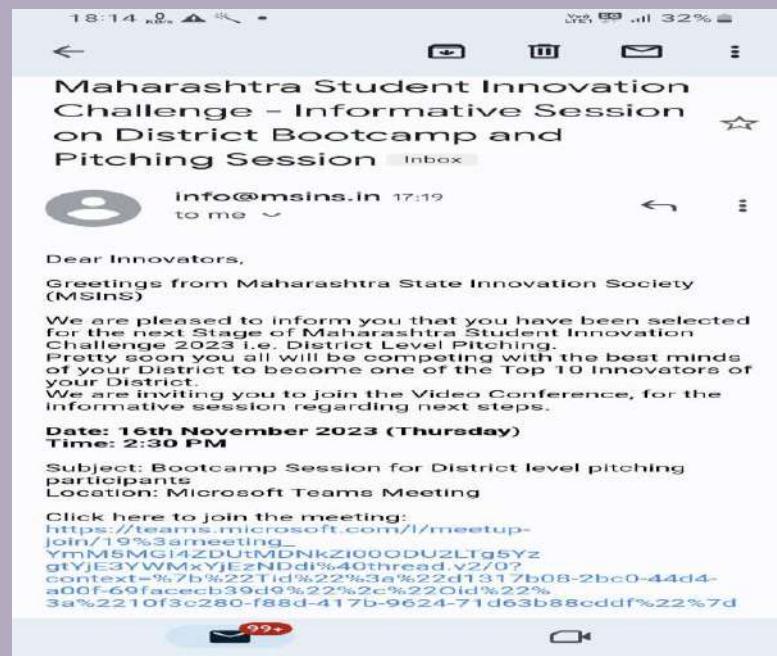
11. Visit of Shri. Dadasaheb Pawar Sir, Our Prestigious Alumni and Director, Teklogica Control Systems, Nashik to MVPS's KBT, COE, Department of Instrumentation and Control Engineering, under Industry Institute Interaction

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 24th November 2023. 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, 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.



12. District level competition “Maharashtra Students Innovation Challenge”

Members: Prashant Shinde, Harshal Udamale Under the guidance of Dr. Ashwini Patil .The student's team of final year Instrumentation and Control Engineering worked on a project “Application of PLC and SCADA in irrigation systems.” The project got selected in the Maharashtra State Innovation Challenge for the district-level stage.



DECEMBER-2023

1. Examiner for Project Competition “Avishkar-2023” Organized by Maharashtra University of Health Sciences, Nashik

This two-day project competition was organized by Maharashtra University of Health Sciences, Nashik on 5th and 6th December 2023. In this competition huge response was received from students from different colleges of Maharashtra affiliated to this University in different categories. In this competition, I was examiner for Engineering and Technology category. In this category total 60 projects are participated. Out of these 3 projects are selected for next state level completion. In this competition, it was great experience for me and found many creative ideas of students which will be beneficial in health and science sector in future.



2. Expert for one-week Faculty Development Program at Shri Chhatrapati Shivaji Maharaj College of Engineering, Nepti, Ahmednagar on 21st December 2023.

Shri Chhatrapati Shivaji Maharaj College of Engineering, Nepti, Ahmednagar organized one-week Faculty Development Program on “Readiness for National Board of Accreditation (NBA)” during 18th Dec to 22nd Dec 2023. In this program I was invited as an expert for to delivering one day session on the “SAR Preparation for NBA”. In this program I delivered two sessions (10:30 am to 1:00 pm and 2:00 pm to 4:30 pm). In these two sessions I have discussed SAR preparation and its evaluation report with faculty members. Also presented SAR content preparation through power point presentation for program level criteria (Criteria-I to VII).



3. 12 Weeks ONLINE SWAYAM Course titled “Programming in Python”

Study Web of Active-Learning for Young Aspiring Minds (SWAYAM) JANUARY /8
COURSES/JULY SEMESTER 2023
Score Card for Final Proctored Exam

Roll Number :	MR19010266	Application Number:	2215110340275
Candidate's Name:	VINAS AHIRRAO	Date of Birth :	04-05-1977
Category:	GENERAL	Nationality:	Indian
Gender:	Male	Person with Disability (PWD):	No

SCORE DETAILS

Course Code	oc023-03-14
Course Name	Programming in Python
Mode of Exam	CBT
Date of Exam	01-12-2023
Shift of Exam	Shift 2
Maximum Marks	100
Marks Obtained	34
Marks Obtained (in words)	Thirty Four
Date of Declaration of Result	10/12/2023

John Alexander
SENIOR DIRECTOR / NTA

Note:

- Particulars of the Candidate have been indicated as mentioned by him/her in the online application form, which are subject to verification later.
- Candidate, if found submitting incorrect information or tampering with the Score Card, will be considered as using unfair means and their candidature will be canceled.
- Candidates must preserve this Score Card till the result process is complete.
- Final scores & certificates will be given by respective National Coordinator.

4. Attended one week FDP.

We used SPSS statistics tool , learned various activities : video lecture content creation for e-content, use of Chat GPT in a positive way.



5. Virtual Lab experiment Execution.

Students executed 2 experiments: alarm annunciator and synchro transmitter and receiver. The demonstration was taken on Saturday and students executed on Sunday at their home. Students are motivated who does it well in advance by giving them Pen as prize.



6. Alumni visit to Department

Ms. Trupti Rushikesh Patil (Chavan), Director, Rutwesh International Producer Nirmal Art Production, Nashik,

Ms. Trupti Rushikesh Patil (Chavan), Director, Rutwesh International Producer Nirmal Art Production, Nashik, visited our department of Instrumentation & Control Engineering dated 01st December 2023. In this visit she shared his success story as an Entrepreneur. She shared few experiences while working in her organization. She showed keen interest in interacting with students and providing them any kind of help in future



7. Alumni visit to Department

Mr. Shreejay Dhavale (Completed M.S in Ireland in Project Management)

working as an Instrumentation Engineer in P.M. Group, Ireland

Mr. Mahendra Gunal, Domain Expert (PAMC) Siemens, Bangalore

Mr. Nishant Jadhav, Entrepreneur, CEO, Owner of N.J. Engineering, Nasik

Mr. Shreejay Dhavale (Completed M.S in Ireland in Project Management) working as an Instrumentation Engineer in P.M. Group, Ireland. **Mr. Mahendra Gunal, Domain Expert (PAMC) Siemens, Bangalore**. **Mr. Nishant Jadhav, Entrepreneur, CEO, Owner of N.J. Engineering, Nasik** , visited our department of Instrumentation & Control Engineering dated 26th December 2023. In this visit they shared their success story as an Entrepreneur and Industrial personal. They shared few ongoing projects of his company. They shared her experience while working in Industrial organization. They showed keen interest in interacting with students and providing them any kind of help in future regarding Internship, Projects and Entrepreneurship.



JANUARY 2024

1. Participation in Engineering Talent Search at Nashik.

This competition was launched by Laghu Udyog Bharati for different programs and for different colleges. These three students participated in this event, presented their idea – project idea. Their guide certificate is also mentioned herewith. Students got very good exposure. They also participated and excelled in SPPU yearly innovative event Avishkaar.



2. Identification of pollution in river Godavari.

These photographs are showing pollution in river Godavari on above two recorded dates. This implies that these are continuous challenges at river Godavari in a specific range. As per Sustainability Development Goals, SDG Goal 6 is Clean water and sanitation. This photograph is a challenge, an open problem to be solved. There are farms on this river banks, there is an engineering institute as well near this location.



3. Expert session

Mr. S. R. Pandit Sir, in his expert session and demonstration of UV-VIS spectrophotometer, showed to students and faculty: how to take measurement of sample absorbance peak with the UV-VIS spectrophotometer. He instructed students to show self- calibration mode of the instrument and taking sample readings. Students learned how the sample is tested. This session was organized by Dr. A. R. Kulkarni.



4. Industrial Visit at Caprihhans India Ltd, Nasik

For TE Instru. & Control Engg. Students.

Total number of students- 42

Staff Members - 03. Dr. S.H. Jadhav, Mr. Keshav Bodake, Ms. V. P. Shinde.

At Caprihhans India Ltd, Nasik, Third year Instrumentation & Control Engineering students got explored with Caprihhans India Ltd, Nasik, also got aware of role of PVC film manufacturers in India. Students got explored with PVC Film Production Technology Process. They got explored to Products like Flexible PVC films, rigid PVC films, paper coated lidding foils. They saw the technology forms, production process, and other innovative solutions to customers.



5. Sports Achievements

Mr. Shreeyas Yelmame, Mr.Sudarshan Pangam

Hearty Congratulations to T. E Instrumentation and Control Engineering Students Mr. Shreeyas Yelmame and Mr.Sudarshan Pangam for winning the Lawn tennis game in Fusion 2024 (College Level Gathering).First time Lawn Tennis game introduced in our Fusion 2024 and our Instrumentation and Control Engineering students played very well with good spirit. Congratulations to team instrumentation and Control students.



6. Sports Achievements: Kabaddi Tournament (Fusion 2024)

Team Instrumentation and Control Engineering.

Heartiest congratulations to Team Instrumentation and Control Engineering for your amazing sports achievements in Kabaddi sports event of Fusion 2024(College Gathering). You have truly demonstrated perseverance, dedication, and talent in your field. Keep up the great work!



7. Sports Achievements : Cricket Tournament (Fusion 2024) Instrumentation and Control Engineering Students

Hearty Congratulations to Instrumentation and Control Engineering Students for winning today the Cricket Cup in Fusion 2024 (College Gathering). Congratulations to team Instrumentation and Control Engineering Students for their awareness regarding Sports, Physical Fitness and Team work. Regards



8. One day Faculty Development Program Organized by Department of Instrumentation and Control Engineering under Instrumentation & Control Student's Association (ICONs)

Mr. Mangesh Bhanage, Director, HRRDC Pvt, Ltd, Nasik deliver an expert session of two hours on “**Problem Identification and Challenges**” dated 02nd January 2024. Sir focused on education, Problem Identification and Challenges, human’s main problem, how to apply engineering knowledge, Improvement expected regarding Entrepreneurial Journey.

Mr. Shreekant Patil, Chairman, NIMA (Nasik Industrial Manufacturing Association) Nashik. Delivered an expert session of three hours on “**Entrepreneurial Journey in Engineering Consultancy: Business Model**” dated 02nd January 2024. Sir focused on Startup India, Consultancy and Entrepreneurship Aspects, Connect to Industry, Identify the problems, Types of Entrepreneurs, Udyam registration process and gave many examples of Successful Consultants.



9. Industrial Visit at Yuva Mohatsava, Nasik For TE Instru. & Control Engg. Students. Total number of students- 32 Staff Members - 03. Dr. S.H. Jadhav, Mr. S. R. Pandit, Mr. S. R. Patil.

At Yuva Mohatsava, Tapovan, Nasik, Third year Instrumentation & Control Engineering students got explored Yuva Mohatsava organized on the eve of National Youth Day 2024, celebrated on January 12th, is an event that honors the birth anniversary of Swami Vivekananda. The theme for National Youth Day 2024 is “Arise, Awake, and Realize the Power You Hold. On. Our Prime Minister, Shri Narendra Modiji leaded the youth festival.



10. Won District-level competition “Maharashtra Students Innovation Challenge” seed funding competition and got seed funding of Rs. one Lakh. Students felicitated by Hon. Minister Dadaji Bhuse on the occasion of Republic Day.

Members: Prashant Shinde, Harshal Udamale Under the guidance of Dr. Ashwini Patil, and support of Mr. Bhagyajit Kale, Senior project engineer, FOX Solutions, Nashik.

The team of final year Instrumentation and Control Engineering students participated in MSIC (Maharashtra Student Innovation Challenge) which is the seed funding competition for Maharashtra student who want to make their project commercial and want to Start their own Startup.

The team won the competition at District level. They got felicitated by Hon. Minister Dadaji Bhuse on the occasion of Republic day and got the seed funding of Rs. 1 lakh. The project title is “Application of PLC and SCADA in irrigation systems.” The Project is being guided by Dr Ashwini K Patil and the support was provided by Mr. Bhagyajit Kale, Senior project engineer, FOX Solutions, Nashik.



FEBRUARY 2024

1. Campus Placement.

1. Aditi Jagtap, Sakshi Honrao, Prashant Shinde and Rohit Dabhade are being placed in Orien Automation and Services, Pune.
2. Sonali Kasav, Sakshi Thakare, Sahil Nigal, Shubham Patil and Saurabh Sonawane are being placed in Artee Flow Controls, Pune.



Aditi Jagtap



Sakshi Honrao



Prashant Shinde



Rohit Dabhade



Sonali Kasav



Sakshi Thakare



Sahil Nigal



Shubham Patil



Saurabh Sonawane

2. Alumni visit to Department for Campus Drive: Placement

Mr. Aadesh Kadam, GET, Artee Flow Controls, Pvt, Ltd, Pune

Mr. Aadesh Kadam, GET, Artee Flow Controls, Pvt, Ltd, Pune, visited our department of Instrumentation & Control Engineering dated 14th February 2024. Today Aadesh is for CAMPUS Drive of Final year Engineering Students along with other Hon. Dignitaries of Artee Flow Controls Pvt Ltd, Pune. In this visit he shared his success story as a GET in Artee Flow Controls Pvt Ltd, Pune. He shared his 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,



3. Selection of our Alumni, Mr. Kaustubh Balve for M.S in Medical System Engineering at OVGU, Magdeburg, Germany .

Instrumentation & Control Engineering Alumni (2023 pass out) Mr. Kaustubh Balve bagged his Selection for his Higher Education i.e Masters (M.S) in Medical System Engineering at OVGU Magdeburg, Germany dated 14th February 2024. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Mr. Kaustubh Balve for his Achievements.



4. Selection of our Alumni, Mr. Arjun Ugale for Masters in Renewable Energy Engineering at University of Aberdeen, Scotland.

Instrumentation & Control Engineering Alumni (2023 pass out) Mr. Arjun Ugale bagged his Selection for his Higher Education i.e Masters (M.S) in Renewable Energy Engineering at University of Aberdeen, Scotland dated 15th February 2024. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Mr. Arjun Ugale for his Achievements.



5. Selection of our Final Year Student Ms. Rupali Avhad for Master's in Data science at Wichita State University, Kansas, USA. She has received scholarship worth \$12000.

Instrumentation & Control Engineering Final Year Student Ms. Rupali Avhad bagged his Selection for his Higher Education for Master's in Data science at Wichita State University, Kansas, USA dated 17th February 2024. She has received scholarship worth \$12000. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Ms. Rupali Avhad for her Achievements.



6. MoU Signing

Total number of students- Nil

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

Our department has signed MoU with Orien, Pune which is a leading and upcoming company growing fast in the field of automation in association with OMRON and MITSUBISHI. Under this MoU, company has conducted placement drive at our college and given job opportunity to our 4 students (Mr. Rohit Dabhade, Mr. Prashant Shinde, Ms. Adity Jagtap and Ms. Sakshi Honrao) from final year batch by offering CTC of INR 2.7 LPA. During this, Ms. Anuja Tathe and Mr. Amey Kulkarni, Directors of Orien visited our department and assured different activities with department in future. (07th February 2024)



7. Participated in NEC FINALIST E SUMMIT 2024 at IIT BOMBAY

Hearty Congratulations and Proud to share that our Instrumentation and Control Engineering Students participated in NEC FINALIST E SUMMIT 2024 at IIT BOMBAY. FE - Suhani Prakash Patil (Instru), TE: - Saee Palekar and Shreyas Yelmame as Team members of KBTCOE Ed and startup cell. Good exposure at IIT Bombay by our Students. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated all the Students for participating in NEC FINALIST E SUMMIT 2024 at IIT BOMBAY



8. Innovative Teaching Method: Role Play .

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 04 Students) was assigned the Role Play on “Demonstration of working of Solar Renewable Energy Source” – Team Leader was Mr. Atharva Aher

Group B (Total 05 Students) were assigned the Role Play on Demonstration of working of Wind Renewable Energy Source. – Team Leader was Ms. Harshali Ahirrao.

Group C (Total 05 Students) were assigned the Role Play on “Demonstration of working of Hydro Renewable Energy Source. – Team Leader was Ms. Darshana Bhoi

Complete working of Demonstration of working of Solar, Wind, Hydro, Geothermal Renewable Energy Source, and Working of Sensor with application was carried out through Role play. Then Students were assigned the role of: Solar Cell, Inverter, Battery Sunlight, Solar, wind, Hydro, Geothermal Energy source, Generator, Substation, Windmill, Dam, Turbine, Feeder, Cooler, All four groups executed very well the Role Play. This is how every student plays his/her role.



Group A: Demonstration of Working of Solar Renewable Energy Source



Group B: Demonstration of Working of Wind Renewable Energy Source



Group C: Demonstration of Working of Hydro-Renewable Energy Source



Group D: Demonstration of Working of Geothermal-Renewable Energy Source

9. Role Play(TE)

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 08 Students) was assigned the Role Play on "Demonstrate the working of Working Intelligent Building Management System for Waste Management" – Team Leader was Ms. Bhavana More

Group B (Total 07 Students) were assigned the Role Play on Demonstrate the working of Working Intelligent Building Management System for Water Level Management. – Team Leader was Ms. Akshata Thankar.

Group C (Total 07 Students) were assigned the Role Play on "Demonstrate the working of Working Intelligent Building Management System for Fire Alarm System – Team Leader was Ms. Revati Patil

Group D (Total 05 Students) were assigned the Role Play on “Demonstrate the working of Working Intelligent Building Management System for Lighting System. – Team Leader was Ms. Neha Saraf.

Complete working of Demonstration of working of Demonstrate the working of Working Intelligent Building Management System for Waste Management, Water Level Management, Fire Alarm System, Lighting System, and Working of Sensor, Actuators, Automation with application in Intelligent Building Management System was carried out through Role play. Then Students were assigned the role of: Sensors, Actuators, Controller, Display, Alarm System, Fire Security System, All four groups executed very well the Role Play. This is how every student plays his/her role.



Group A: Demonstrate the working of Working Intelligent Building Management System for Waste Managements



Group B: Demonstrate the working of Working Intelligent Building Management System for Water Level Management System



Group C: Demonstrate the working of Working Intelligent Building Management system for Fire Alarm Security System



Group D: Demonstrate the working of Working Intelligent Building Management System for Lighting System

10. Conducted Practical Demonstration of ERP Biometric Attendance System Ms. Tripti Vadghule Madam , Technical Assistant in ERP Section, MVPS's KBT COE, Nashik

Ms. Tripti Vadghule Madam , Technical Assistant in ERP Section of MVPS's KBT COE, Nasik demonstrated to Third Year Instrumentation and Control Engineering Students Practical working of "ERP Biometric Attendance System" dated 13/02/2024, 14/02/24, 26/02/24) at ERP Section of MVPS's KBT COE, Nasik. Madam Explored Students with Biometric System, ERP Attendance, working of hardware and software, Employee detail generation, New user Creation, Finger, Face Recognition for Attendance, using ESSL Machine, U 602 Hardware Model, Sack Info 2.5 Software. Students filled their information and practically did their own biometric.



12. Coffee Katta Activity at the Central Library along with students

Students selected different scientific journals and magazines. They verified with teacher what exactly they are supposed to do. Teacher also selected his journal. They sat together with different journals. Read and enjoyed coffee. Lastly they shared amongst each other what they learned in brief.



12. Coffee Katta Activity at the Central Library along with students

An activity “Coffee Katta” is attended by faculty Dr A. K. Patil along with 10 students of the Instrumentation & Control Engineering department on Saturday, 24th Feb 2024 at Central Library. In this activity, all participants visited the journal/article/magazine section and saw many journals. They read one article each in detail, published in the journal related to the latest trends in Instrumentation, Robotics, Electronics, Electronics and telecommunication, finance and management etc multiple domains. They all shared and discussed the topics with each other.



13. Visit of Dean III and NISP Coordinator and Faculty of Dept. of IT

From Dept. Dean III and NISP Coordinator Dr. A. R. Kulkarni and III Coordinator Dr. S. P. Jadhav (Department of Information Technology) visited office of one of the distinguished alumni Mr. Vikram Boadke. Discussion was about expert session from official of the company and mentoring to bussing entrepreneurs of KBTCOE.



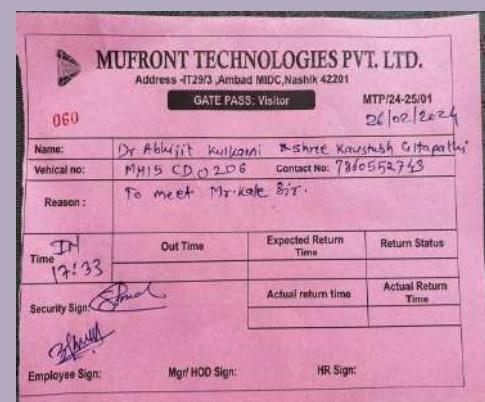
14. Visit of Institute faculties to MIT Academy of Engineering Aalandi Pune

The impact of the visit is integrated approach of faculties, utilizing academic flexibility for students, short term and long term internship for students, the activities in startups and entrepreneurship cell and NISP (National Innovation and Startup Program). Inclusion of IIT and NIT experts in Dept. advisory board.



15. Visit of Member Board of Studies to Principal, HoD and Mufront Technologies Nashik

Hon. Mr. Kaustubh Gitapathi had a meeting with Principal, HoD of Instrumentation and Control and Dept. of Computer Engineering. In this meeting the scope of emerging areas was discussed. In another meeting of Mr. Gitapathi, Dr. Kulkarni Dean III and NISP Coordinator with official of Mufront Technologies, possibilities about training was discussed.



16. "Blood Donation Camp" organized by NSS of Maratha Vidya Prasarak Samaj, KBTCOE, Nashik

Maratha Vidya Prasarak Samaj, KBTCOE, Nashik, and Dr. Vasantrao Pawar Medical College, Nashik, organized a "Blood Donation Camp" on **26th February 2024**. The camp's motto was to create awareness in society to donate blood.



17. Volunteer engagement session Internshala expert with students group.

The group leader Mr. Satish initiated interaction among the training related students to tell about themselves, about their hobbies. He further asked them their goals, a slogan they remember. Importance of interaction in meetings. Importance of email writing, sharing among group of friends or team, importance of team work. He also tried to find what students learned-tools like Data Analytics tool Power Builder.



MARCH 2024

1. Parents meet

Members Present: Dr. B.J. Parvat, Dr. A. R. Kulkarni, Dr. S.H. Jadhav, Dr. Y. P. Patil, Dr. A. K. Patil, Mr. S. R. Pandit, Mr. S. D. Nikam, Mr. V. A. Ahirao, Mr. S. B. Lukare, Mr. S.R. Patil, Ms. V. P. Shinde, Mr. Keshav Bodake, Parents of SE, TE, BE Instrumentation & Control Engineering,

Total no. of participants: 58 parent's (SE, TE, BE)+ 12 Faculty

The parents meet started with the welcome speech of Dr. B.J. Parvat, Head of the department. Sir welcomed and thanks all the parents for their valuable presence. He briefs about importance of parent-teacher meeting for the continuous improvement process. He discussed various activities conducted by department and highlighted the department strengths. He also requested all the parents to share your valuable feedbacks openly. Ms. Rupa Shinde madam, Counsellor, MVPS's KBT, COE, Nashik Presented an Expert session on "Parenting" in front of all parents. She gave numerous examples and told parents to please listen, understand and support your children, try to understand their feelings, support them, talk to them, give them time, talk with good words to them. All Parents liked the Parenting session very much. Department felicitated all the University Toppers, Placed Students, Toppers of SE, TE, BE and Students who showed Special Achievements during the academic year were felicitated at the hands of their own Parents. All Parents congratulated and thanks to department for taking many efforts on our children's for the overall improvement. All Parent's Congratulated department achieving good Placement. Parent's congratulated to department for best teaching-learning culture. Parent's Thanked to department for providing new technology upgradations by arranging various sessions and internships. All the present parents interacted with department faculties and discussed about their wards. Also given valuable feedbacks to individual teachers . The meeting concludes with thanks from students Coordinators.



2. Sports Achievements : Cricket Cup in KBT karandak 2024 Instrumentation and Control Engineering Students

Hearty Congratulations to Instrumentation and Control Engineering Students for winning today the Cricket Cup in KBT karandak 2024 on the eve of Birth Anniversary of Late Hon. Shri. Baburaoji Ganpatrao Thakare..Congratulations to team Instrumentation and Control Engineering Students for their awareness regarding Sports, Physical Fitness and Team work. Regards



3.Competition Achievements : Elocution Competition in KBT Elocution 2024 Instrumentation and Control Engineering Students

Hearty Congratulations to First Year Instrumentation and Control Engineering Students Ms. Suhani Prakash Patil for bagging Second Rank in the Elocution Competition in KBT Elocution 2024 on the eve of Birth Anniversary of Late Hon. Shri. Baburaoji Ganpatrao Thakare. Congratulations to Ms. Shivani from First Year Instrumentation and Control Engineering for her awareness regarding Extra Curriculum Activities. Regards



4. Selection of our Alumni, Ms. Bhakti Boob for (M.S) Master's in Embedded Computing Systems at RPTU Kaiserslautern, German

Hearty congratulations to our Alumni of Instrumentation and Control Engineering (2023 passout batch), Ms. Bhakti Manoj Boob for her selection in Master's in Embedded Computing Systems at RPTU Kaiserslautern, Germany. Also She secured 6th Rank in SE April/May 2021 at University Level. Once again congratulations. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Ms. Bhakti Manoj Boob for her Achievements.



5. Our Respected Alumni Mr. Gajanan Sarole bagged a Patent Granted in Pharmaceutical industry for a device cleaning tablet compression machine*

Heartiest Congratulations to our Respected Alumni Mr. Gajanan Sarole (2021 Passout Batch) for granting a Patent in Pharmaceutical industry for a device cleaning tablet compression machine. The process of cleaning the machine was manual earlier with his invention it has been Automated, reducing the time, cost and manpower. It is world's first patent in this field. Very Proud of our Alumni. We wish him all the very best for his Golden Career Ahead. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Mr. Gajanan Sarole for his Achievements. ik



6. Alumni visit to Department Mr. Rakesh Singh (2010 Instrumentation and Control Engineering Passout), Inventory Manager, Supply Chain,Flipkart Pvt Ltd, Thane.

Mr. Rakesh Singh (2010 Instrumentation and Control Engineering Passout), Inventory Manager, Supply Chain,Flipkart Pvt Ltd, Thane visited our Department of Instrumentation & Control Engineering dated 22nd March 2024. In this visit he 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. Rakesh Singh for his Achievements and wished him all the best for his golden Career Ahead.



7. Alumni visit to Department Mr. Kshitij Sawant (2018 batch passout, Senior Application Development Analyst, Accenture Pvt Ltd, Bangalore)

Mr. Kshitij Sawant (2018 batch pass out, Senior Application Development Analyst, Accenture Pvt Ltd, Bangalore visited our Department of Instrumentation & Control Engineering dated 26th March 2024. In this visit he shared his success story as an Software Engineer. He shared few ongoing projects of his company in IT Field 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. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Mr. Kshitij Sawant for his Achievements and wished him all the best for his golden Career Ahead.



8. Alumni visit to Department Mr. Ashwin Waghchaure (2018 batch passout) Software Engineer, Finastra Ltd, Pune

Mr. Ashwin Waghchaure (2018 batch passout) Software Engineer, Finastra Ltd, Pune visited our Department of Instrumentation & Control Engineering dated 26th March 2024. In this visit he shared his success story as a Engineer. He shared few ongoing projects of his company in his Field 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. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Mr. Ashwin Waghchaure for his Achievements and wished him all the best for his golden Career Ahead.



9. Faculty Participation in FDP on “Artificial Intelligence and its Practices using Python”

Mr. S.R. Pandit, Faculty of Instrumentation and Control Engineering, participated in a two-day offline FDP on “**Artificial Intelligence and its Practices using Python**” from 21st to 22nd March 2024. The FDP is organized by the Department of Instrumentation and Control Engineering of MVPS’s KBT College of Engineering, Nashik. The topics include Exploring Search uniformed Strategies in AI using real-time Applications, Exploring Search-informed Strategies in AI using real-time Applications, Hands-on sessions for applying these techniques in the real world using Prolog, and Introduction to Fuzzy Logic with Examples & applications.



10. Value Added Session on " Study Abroad" organized by Department of Instrumentation and Control under Instrumentation & Control Student's Association (ICONs)

K P Singh is the Founder and Director of the Institute of Management and Foreign Studies (IMFS), and Professor Nitin Lathe, Professor at IMFS Delivered a Value Added Session on "Study Abroad" to SE, TE and BE students dated 07th March 2024. They both focused to motivate students and make them aware about the importance of Higher Education, its benefits and Upgrading oneself. They focused on the factors that students should consider when choosing a study abroad destination. Which country the first preference for masters should be given was very well explained by both the speakers. Which exams are required for Higher Education, which country has hired more Engineers in last few years were the key points of the Expert session. Hon. Head of Department Dr. B. J. Parvat and all faculty members appreciated both the Expert's efforts in guiding faculty and students



11. Faculty Development Program on "Artificial Intelligence and its Practice using Python" More than 25 Participants Participated

The two-day State Level Faculty Development Program organized by the Department of Instrumentation & Control Engineering on "Artificial Intelligence and its Practice using Python" ran from March 21st to March 22nd, 2024. A total of 25 faculty members from MVPS's KBT COE and other colleges participated in the FDP. Dr. Gargi Phadke, Professor at RAIT, Mumbai, served as the expert/resource person. The session on the first day was inaugurated by Chief Guest Dr. Gargi Phadke Madam. She delved into various topics including Informed Search Algorithm, Best First Search, A* Algorithm, Hill Climbing Method, Genetic Algorithm, Uninformed Search Algorithm, Knowledge Representation and Reasoning concepts, and Prolog Software applications, all complemented with hands-on practice.

On the second day, Dr. Gargi Phadke continued to engage participants, focusing on Fuzzy Logic, Fan Speed Control based on Temperature and Humidity, Weather Forecasting, Obstacle Avoidance Robot, and assigned tasks related to clothing choices based on Temperature and Lung Infection.

Dr. D. D. Lokhande Sir, Educational Officer, MVP Samaj, Nashik, Dr. S. R. Devane, Principal, KBT COE, Dr. V. M. Birari, Vice Principal, KBT COE, and Mrs. S. J. Shinde, Registrar, KBT COE, extended their congratulations to the Instrumentation and Control

Department of Instrumentation & Control Engineering, MVPS's KBT COE, Nashik



12. Faculty Participation in FDP on “Artificial Intelligence and its Practices using Python”

Dr. Y.P. Patil, Faculty of Instrumentation and Control Engineering, participated in a two-day offline FDP on “**Artificial Intelligence and its Practices using Python**” from 21st to 22nd March 2024. The FDP is organized by the Department of Instrumentation and Control Engineering of MVPS’s KBT College of Engineering, Nashik. The topics include Exploring Search uninformed Strategies in AI using real-time Applications, Exploring Search-informed Strategies in AI using real-time Applications, Hands-on sessions for applying these techniques in the real world using Prolog, and Introduction to Fuzzy Logic with Examples & applications.



12. Campus Placement.

1. Aditya Bagul is being placed in TOYO Engineering India Pvt. Ltd., Mumbai.
2. Ajinkya Uphade, Lalit Chavan, Kajal Pomnar, Poonam Pomnar, Sanika Naik, Avantika Benke and Tejal Jagdale are being placed in Quess Corp. Ltd., Pune (for Honeywell Automotive Ltd., Pune)



Aditya Bagul



Ajinkya Uphade



Lalit Chavan



Kajal Pomnar



Poonam Pomnar



Sanika Naik



Avantika Benke



Tejal Jagdale

13.2 days FDP on “Artificial intelligence and its practices using Python”

Faculty of Instrumentation and Control Engineering, participated in a two-day offline FDP on “**Artificial Intelligence and its Practices using Python**” from 21st to 22nd March 2024. The FDP is organized by the Department of Instrumentation and Control Engineering of MVPS's KBT College of Engineering, Nashik.



15. Faculty Participation in FDP on “Artificial Intelligence and its Practices using Python”

Mr. S.D. Nikam, Faculty of Instrumentation and Control Engineering, participated in a two-day offline FDP on “**Artificial Intelligence and its Practices using Python**” from 21st to 22nd March 2024. The FDP is organized by the Department of Instrumentation and Control Engineering of MVPS’s KBT College of Engineering, Nashik. The topics include Exploring Search uniformed Strategies in AI using real-time Applications, Exploring Search-informed Strategies in AI using real-time Applications, Hands-on sessions for applying these techniques in the real world using Prolog, and Introduction to Fuzzy Logic with Examples & applications.



16. Faculty Participation in FDP on “Artificial Intelligence and its Practices using Python”

Mr. S. B. Lukare, Faculty of Instrumentation and Control Engineering, participated in a two-day offline FDP on “**Artificial Intelligence and its Practices using Python**” from 21st to 22nd March 2024. The FDP is organized by the Department of Instrumentation and Control Engineering of MVPS's KBT College of Engineering, Nashik. The topics include Exploring Search uniformed Strategies in AI using real-time Applications, Exploring Search-informed Strategies in AI using real-time Applications, Hands-on sessions for applying these techniques in the real world using Prolog, and Introduction to Fuzzy Logic with Examples & applications.



17. Faculty Participation in FDP on “Artificial Intelligence and its Practices using Python”

Dr. Ashwini K. Patil, Faculty of Instrumentation and Control Engineering, participated in a two-day offline FDP on “**Artificial Intelligence and its Practices using Python**” from 21st to 22nd March 2024. The FDP is organized by the Department of Instrumentation and Control Engineering of MVPS's KBT College of Engineering, Nashik. The topics include Exploring Search uniformed Strategies in AI using real-time Applications, Exploring Search-informed Strategies in AI using real-time Applications, Hands-on sessions for applying these techniques in the real world using Prolog, and Introduction to Fuzzy Logic with Examples & applications.



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

For TE Instru. & Control Engg. Students.

Total number of students- 38

Staff Members - 03. Dr. S.H. Jadhav, Mr. Keshav Bodake, Ms. V. P. Shinde

At NMC Water Treatment Plant, Viholi, Nashik, 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

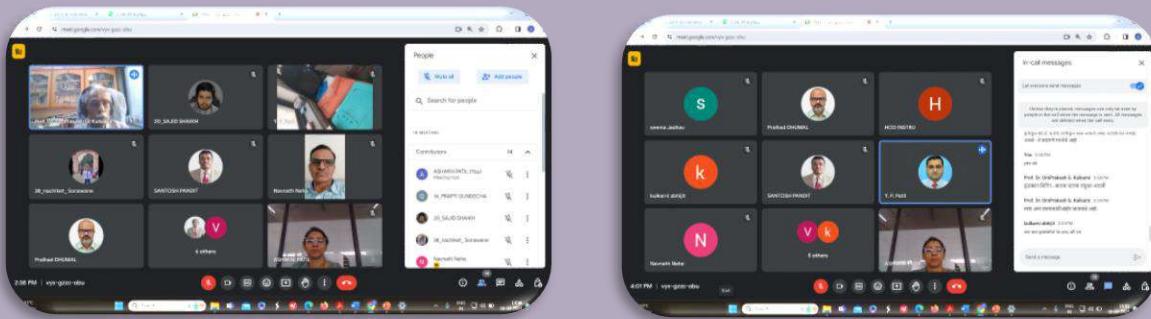


19. Departmental Advisory Board (DAB) Meeting

Members Present: Dr. B. J. Parvat, Dr. Omprakash Kulkarni, Mr. Pralhad Dhumal, Dr. N. S. Nehe, Mr. Subhash Aher (Parent representatives), students representatives and all Instrumentation staff members etc. (Total participants: 15)

In the Instrumentation and Control department, a Departmental advisory board meeting was held on 9th March 2024. In the meeting, Industry experts suggested that the projects, Internship must be done seriously by the students with proper documentation. A fruitful discussion regarding the curriculum in autonomy as per NEP2020 happened. The subjects like research methodology, ability enhancement courses like foreign language Japanese etc should be considered.

The meeting concluded by summarizing the discussion by Mr. Y. P. Patil and a vote of thanks by Dr. Ashwini K. Patil.



20. Mr. Shanatanu Mujumdar, Mufront Technologies Pvt. Ltd. Nashik, Director Business Development. This activity is taken at Institute level.

Mr. Mujumdar interacted with faculties stating current opportunities with India, Nashik, and expectations from students. He compared industry treatment and institute treatment to students with points: timely work done, discipline, attitude of students in current situation. He also pointed that even if a large number of opportunities come to our country and Nashik, are we in position to handle those as per expectations of industries or not.



21. Industrial Visit at “ECAMEX 24”, Bombay Exhibition Centre (BEC), Goregaon, Mumbai.

S.E. (Instrumentation and Control Engineering).

Total number of students- 28

Staff Members - 02. Mr. S. D. Nikam, Mr. S. B. Lukare

At ECAMEX 24, Second year Instrumentation & Control Engineering students got explored with role of Instrumentation and Control engineering in electrical safety along with the standards. Students got explored with field instrumentation, control panel and IIOT concepts



APRIL 2024

1. One Day FDP on “Instrumentation for Diverse Industry Automation”

As part of faculty development department has conducted program on **“Instrumentation for Diverse Industry Automation”**. In this program **Mr. Ganesh Nalge** Head Control and Instrumentation department of Toyo Engineering India Pvt Ltd, Mumbai and his team guided the faculty and students on the mentioned topic.



2. Conducted Internal Academic and administrative Audit of AY 2023-24 (sem-1) in the Department of Instrumentation & Control Engineering, Nashik

Department of Instrumentation & Control Engineering conducted an Academic & Administrative Audit (Internal) of AY 2023-24 on Saturday, 13th April 2024, from 03:00 p.m. onwards. Department's Program Assessment Committee members Mr. A.P. Meshram, Associate Professor in E&TC, and Mr. M.B. Patil, Assistant Professor from the Civil Department of MVPS's KBT College of Engineering, Nashik, were present for this audit. For the audit, the faculty & staff members of the department were present. PAC members checked and verified all the documents as per the checklist and remarked on the following points for improvement:

1. Participation in the curriculum development process
2. Detailing of Thrust area's
3. Research grants, project funding, consultancy
4. ISTE, IEEE and NSS records
5. GATE and other competitive exams
6. Peer review of Innovative/best practice
7. Students publications Mentor records etc



3. Participated in One Day FDP on “Instrumentation for Diverse Industry Automation”

Dr. Y.P. Patil, Faculty of Instrumentation and Control Engineering, participated in a one-day offline faculty-students development program on “**Instrumentation for Diverse Industry Automation**” conducted on 6th April 2024. The FDP was organized by the Department of Instrumentation and Control Engineering of MVPS’s KBT College of Engineering, Nashik. In this program, Mr. Ganesh Nalge, Head of the Control & Instrumentation department of **Toyo Engineering India Pvt Ltd, Mumbai**, and his team guided the faculty and students on the following topic.

1. Overview of Instrumentation and Control.
2. Understand instrumentation in process industries.
3. Basics of control systems and their applications.
4. Instrumentation required for construction engineering.

Understanding of Floating Production Storage and Offloading (FPSO) and its importance.



4. Participated in Four Day FDP on “Embracing Humanities and Social Sciences”

Dr. Y.P. Patil, Faculty of Instrumentation and Control Engineering, participated in a one-day offline faculty-students development program on “**Embracing Humanities and Social Sciences**” from 22/03/2024 to 28/03/2024. The FDP was organized by the Department of Electronics and Telecommunication Engineering of MVPS’s KBT College of Engineering, Nashik. This Faculty Development Program (FDP) aims to provide educators and researchers with insights and tools to enhance their understanding and application of humanities and social science principles in management contexts. Participants will explore the intersection of these disciplines and gain strategies to integrate them effectively into their teaching, research, and professional practice.



5. Guest Visited the Department Prof. Nazim Uruslanovich, Director of International Corporation & Candidate of Technical Sciences, and two members from Nexus RUSINDIA, Nashik

Prof. Nazim Uruslanovich, Director of International Corporation and Candidate of Technical Sciences, and two local representatives from Nexus RUSINDIA visited the Department on 16 April 2024. The team interacted with faculty, saw all the department laboratories, and appreciated the infrastructural and multidisciplinary laboratory facilities available in the department. Head, Dr. B.J. Parvat, IQAC Coordinator, Dr. Swapnil Awate, Faculty Dr. S.H. Jadhav, Mr. S.D. Nikam and all the faculty members welcome the guest.



6. Participated in Four Day FDP on “Embracing Humanities and Social Sciences”

Mr. S. B. Lukare, Faculty of Instrumentation and Control Engineering, participated in a one-day offline faculty-students development program on “Embracing Humanities and Social Sciences” from 22/03/2024 to 28/03/2024. The FDP was organized by the Department of Electronics and Telecommunication Engineering of MVPS’s KBT College of Engineering, Nashik. This Faculty Development Program (FDP) aims to provide educators and researchers with insights and tools to enhance their understanding and application of humanities and social science principles in management contexts. Participants will explore the intersection of these disciplines and gain strategies to integrate them effectively into their teaching, research, and professional practice.



7. Participated in Four Day FDP on “Embracing Humanities and Social Sciences”

Mr. S. R. Pandit, Faculty of Instrumentation and Control Engineering, participated in a one-day offline faculty-students development program on “Embracing Humanities and Social Sciences” from 22/03/2024 to 28/03/2024. The FDP was organized by the Department of Electronics and Telecommunication Engineering of MVPS’s KBT College of Engineering, Nashik. This Faculty Development Program (FDP) aims to provide educators and researchers with insights and tools to enhance their understanding and application of humanities and social science principles in management contexts. Participants will explore the intersection of these disciplines and gain strategies to integrate them effectively into their teaching, research, and professional practice.



8. Value Added Session on “Engineering Management.”

MVPS's KBT COE, Department of Instrumentation & Control conducted Value Added Session on “**Engineering Management**” under the Instrumentation & Control Student’s Association ICONS on 16th April 2024. Dr. Rupali Mahale Madam, (Assistant Professor), MBA Department, MVPS's KBT COE, Nasik delivered an Expert Session on “**Engineering Management**”. Madam focused on following

Points Lack of Management Skills and why/how 05 Top CA from an Renowned Organization got removed from their jobs. Madam focused on MetaSkills, its importance and how to implement in one’s life. She elaborated on EQ and Engineering Management Skills like Leadership, Problem solving attitude, Emotional Intelligence, Communication Skills, Decision Making required to inculcate by Engineers in Student’s Life. TE Students have taken **Engineering Management** as their Audit Course.



8. Expert Session on " Design of Roof Top Solar Photovoltaic System " organized by Department of Instrumentation and Control and ICONs Student Chapter.

Mr. Prasad Joshi Sir Assistant Professor, M.V.P.S's K.B.T. C.O.E, Nasik delivered an expert session on **“Design of Roof Top Solar Photovoltaic System”** The objectives of the session are to reduce the gap between the curriculum & latest trends in Renewable Energy system. In this session Prasad Joshi sir gave actual Calculations on how to design the Roof Top Solar Photovoltaic System, demonstration on design aspects of Solar Photovoltaic system, Demonstrated the Actual Roof Top Solar Photovoltaic system Installed in our college at Roof top of A Building. Sir Focused on the Application of Solar Photovoltaic System, Factors required for the data for energy bill from MAHADISCOM website



10. Selection of our Alumni, Mr. Atharva More for (M.S) Master's in Biomedical Engineering at Hochschule, Anhalt, Germany.

Hearty congratulations to our Alumni of Instrumentation and Control Engineering (2022 passout batch), Mr. Atharva More for his selection (M.S) Master's in Biomedical Engineering at Hochschule, Anhalt, Germany. Hon. H.O.D. Dr. B. J. Parvat Sir along with faculty members congratulated Mr. Atharva More for his Achievements.



MAY 2024

1. Participated in One Week FDP on “Recent Trends in Electrical Engineering”

Mr.S. R.Pandit, Faculty of Instrumentation and Control Engineering, participated in a One Week online faculty development program (FDP) on “**Recent Trends in Electrical Engineering**” from 21/05/2024 to 25/05/2024. The FDP was organized by the Department of Electrical Engineering of MVPS's Rajarshi Shahu Maharaj Polytechnic, Nashik. This Faculty Development Program (FDP) aims to provide educators and researchers with insights and tools to enhance their understanding and application on “Recent Trends in Electrical Engineering” Participants will explore the intersection of these disciplines and gain strategies to integrate them effectively into their teaching, research, and professional practice.



2. Felicitation of Ms. Revati Patil, Entrepreneur and CEO of S.P. Metals, Nasik, Global Heat Treatment, Nasik, S. P. Metallurgical, Nasik, A V Metals, Ahmednagar, for felicitated by AIMA

Hearty congratulations to our Respected Alumni of Instrumentation and Control Engineering Ms. Revati Patil, Entrepreneur and CEO of S.P. Metals, Nasik, Global Heat Treatment, Nasik, S. P. Metallurgical, Nasik, AV Metals, Ahmednagar, for felicitated by AIMA (Ambad Industries and Manufactures Association) for her Outstanding Achievements in Industrial Sector on the back drop of International Women's day. Very Proud of our Alumni. We wish her all the very best for her Golden Career Ahead.

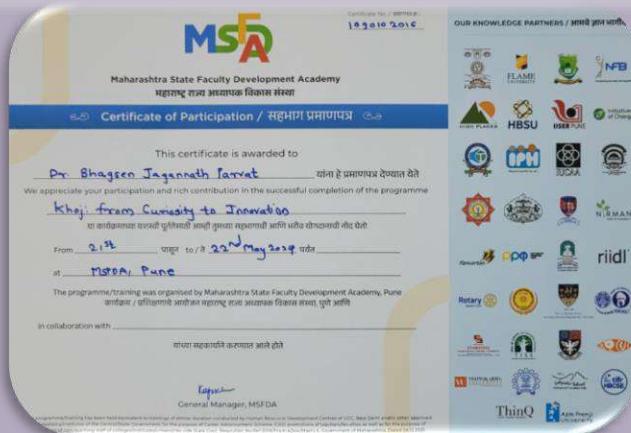


Engineering, MVPS's KBT COE, Nashik

JUNE 2024

1. Participated in 02 Day FDP on “Khoj from Curiosity to Innovation Programme.

Dr. B.J. Parvat, Faculty of Instrumentation and Control Engineering, participated in 02 Day FDP on “Khoj from Curiosity to Innovation Programme” Organized by Maharashtra State Faculty Development Academy at MSFDA, Pune.



2. Campus Placement.

Vaishnavi Tidake, Gitanjali Nikam and Mustafa Shaikh are being placed in Eastro Control Systems Pvt. Ltd., Nashik.



Vaishnavi Tidake



Gitanjali Nikam



Mustafa Shaikh

3. 2 days FDP on “NEP 2020 Orientation & Sensitization”

Mr. V.A.Ahirrao Faculty of Instrumentation and Control Engineering, participated in Short Term Faculty Development Programme on **NEP 2020 Orientation & Sensitization** under “Malaviya Mission Teacher Training Programme (MM-TTP)” of University Grants Commission (UGC) Organized by UGC -Malaviya Mission Teacher Training Centre (Formerly UGC Human Resource Development Centre) Savitribai Phule Pune University, Pune -411007 in collaboration with Shivaji University, Kolhapur from 07/06/2024 To 15/06/2024.



4. Faculty Participation in FDP on “NEP 2020 Orientation & Sensitization Programme”

Mr. S. B. Lukare, Faculty of Instrumentation and Control Engineering, participated in Short Term Faculty Development Programme on **NEP 2020 Orientation & Sensitization** under “Malaviya Mission Teacher Training Programme (MM-TTP)” of University Grants Commission (UGC) Organized by UGC -Malaviya Mission Teacher Training Centre (Formerly UGC Human Resource Development Centre) Savitribai Phule Pune University, Pune -411007 in collaboration with Shivaji University, Kolhapur from 07/06/2024 To 15/06/2024.



5. Participated In 8 Day Fdp On Nep 2020 Orientation & Sensitization Programme.

Dr. Y.P. Patil, Faculty of Instrumentation and Control Engineering, participated in online FDP on "NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME" under the "Malaviya Mission Teacher Training Programme (MM-TTP)" of the University Grants Commission (UGC) Organized by the UGC-Malaviya Mission Teacher Training Centre (Formerly UGC Human Resource Development Centre) Savitribai Phule Pune University, Pune-411007



6. Participated In 8 Day FDP On NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

Mr. S. R. Pandit, Faculty of Instrumentation and Control Engineering, participated in online FDP on “NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME” under the “Malaviya Mission Teacher Training Programme (MM-TTP)” of the University Grants Commission (UGC) Organized by the UGC-Malaviya Mission Teacher Training Centre (Formerly UGC Human Resource Development Centre) Savitribai Phule Pune University, Pune-411007.



7. Participated in 1 Day School Connect (NEP Connect) Abhiyan.

Mr. S. D. Nikam, Faculty of Instrumentation and Control Engineering, participated in 1 day School Connect (NEP Connect) Abhiyan dated 15th June 2024. Organized by MVPS's KBT COE, in association with Savitribai Phule Pune University, Planning and Development under Quality Improvement Program.



8. Alumni visit to Department , Mr. Avdhoot Kulkarni (2004 Instrumentation and Control Engineering Passout), Siemens WLL, Doha, Qatar, Control System Consultant.

Mr. Avdhoot Kulkarni (2004 Instrumentation and Control Engineering Passout), Siemens WLL, Doha, Qatar, Control System Consultant visited our Department of Instrumentation & Control Engineering dated 11th June 2024. In this visit he 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. Avdhoot Kulkarni for his Achievements and wished him all the best for his golden Career Ahead.



7. Participated in One Week FDP on “Recent Trends in Electrical Engineering”

Dr.S.H. Jadhav, Faculty of Instrumentation and Control Engineering, participated in a One Week online faculty development program (FDP) on **“Recent Trends in Electrical Engineering”** from 21/05/2024 to 25/05/2024. The FDP was organized by the Department of Electrical Engineering of MVPS's Rajarshi Shahu Maharaj Polytechnic, Nashik. This Faculty Development Program (FDP) aims to provide educators and researchers with insights and tools to enhance their understanding and application on “Recent Trends in Electrical Engineering” Participants will explore the intersection of these disciplines and gain strategies to integrate them effectively into their teaching, research, and professional practice.



10. Alumni visit to Department Mr. Shubham Magare (2020 Instrumentation and Control Engineering Passout), System Engineer, Honeywell Automation India Ltd Pune.

Mr. Shubham Magare (2020 Instrumentation and Control Engineering Passout), System Engineer, Honeywell Automation India Ltd Pune visited our Department of Instrumentation & Control Engineering dated 07th June 2024. In this visit he 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. Shubham Magare for his Achievements and wished him all the best for his golden Career Ahead.



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