MKSSS's Cummins COLLEGE OF ENGINEERING FOR WOMEN

INSTRU

Department of Instrumentation and Control

MAPAN

THE MEASURE OF PROGRESS

Issue 18, September 2022

Inside this issue:

College Vision & Mission:

Vision

To be globally renowned institute for imparting quality education & to develop women leaders in engineering & technology.

Mission

To develop women professionals who are academically & technically competent with strong professional ethics.

Dept. Vision & Mission:

Vision

To develop the department as a center of excellence in Instrumentation & Control Engineering.

Mission

To develop students with a strong foundation of Instrumentation & Control Engineering.

To develop logical thinking ability, analytical skills, soft skills & create awareness about the professional ethics.

To provide a conducive environment to the students for higher studies & research.

From HOD's Desk — Dr. Anagha Panditrao

Following the trend of previous years, the Instrumentation Department is consistently active in curricular, co-curricular and extra-curricular activities. I am glad to share some of the key achievements in this eighteenth issue of our department newsletter "MAPAN". This year the major challenge for students and faculty was the transformation from online to hybrid and finally to offline mode of teaching learning process. This transition was smoothly carried out by faculty and students. Majority of faculty and students completed various online certification courses, FDPs, workshops to enhance their respective skillset. On the research front, some research papers have been published in renowned journals and few patents are on the verge of being granted. The patent by Dr. Atul Joshi on "Double Focus Spot pick-up for Acoustic Signal" is granted in April 2022. This year the Forbes Marshall best project and Kedar Tumne Innovative project award were bagged by the project titled "IoT based Automobile Collision Avoidance and Safety System". The students with faculty support actively participated in Innovation Council related activities and competitions. I congratulate the participants and winners for their active involvement and achievements in multifaceted events. Wishing us all a similar kind of growth in coming year.

YEAR 2021 - 2022 AT A GLANCE

Workshops and Faculty Development Programs

'*Role of Statistics in the Research Methodology'* expert session by Dr. Revati Shriram for ME student of VES Institute of Technology, Chembur, Mumbai.

Dr. Nivedita Daimiwal served as a expert for FDP on Medical Imaging: Special Topics in Magnetic Resonance Imaging organized by Orchid College of Engg & Technology, Solapur. Topic for the sessions were *'MR Signal Detection'* & *'Spectral Domain Techniques for Real Time Signal Processing'.*

'Research Paper Writing for Undergraduates' expert session was arranged by Dr. Vikas Hajare, at ICON Students Chapter of Dept. of Instrumentation & Control Engg of MVPS's KBT College of Engg, Nasik, in association with IET Nasik Local .

Dr. Revati Shriram served as a expert for FDP on Development of Machine Learning Techniques for Solving Real World Problems organized by NIT Warangal, Sponsored by MeitY GOI. Topic for the session was *'ML in Real Life for Health Care Domain'.*

Dr. Anagha Panditrao, Dr. Nivedita Daimiwal, Dr. Swati Madhe, Dr. Vaishali Upadhye & Prof. H. T. Patil participated in the FDP on '*Inculcating Universal Human Values in Technical Education'.*

Dr. Anagha Panditrao completed the Coursera Course on *'Foundations: Data, Data Everywhere'.*

Dr. Vaishali Upadhye completed the Coursera Course on *'Machine Learning for All'.*

Dr. Dipali Ramdasi complete the NPTEL Course on *'Introduction to Industry 4.0 & IIoT'.*

Dr. Revati Shriram completed the NPTEL Course on *'Accreditation for Undergraduate Engg Programme'* & ARPIT Course on *'Leadership & Governance in Higher Education—Level 2'* .

Dr. Anagha Panditrao, Dr. Vaishali Upadhey, Dr. Swati Madhe, Prof. Yashwant Adhav, Prof. H. T. Patil & Prof. Sheetal Katwe attended FDP on *'New Pedagogies'*.

Dr. Dipali Ramdasi & Prof. Pratima Kulkarni attended series on *'Impact Lecture Series Sessions on IPR'* & *'Impact Lecture Series on Innovation and Technology'.*

Prof. Pratima Kulkarni completed the *'Innovation Ambassador Training (MoE) - Basic Level'*, organized by MoE's Innovation Cell & AICTE.

Dr. Anagha Panditrao has attende the ATAL FDP on *'Sensors Technology'.*

Dr. Dipali Ramdasi & Prof. Pratima Kulkarni attended ATAL FDP on *'Advanced Sensor Technology for Efficient Biomedical and Energy Management in Smart Cities'.*

Dr. Vaishali Upadhye attended ATAL FDP on *'Advances in Control Systems and Sensor Technology'* & *'Automation using PLC Programming'.*

Dr. Swati Madhe attended ATAL FDP on *'Advanced Industrial Automation'.*

Dr. Vikas Hajare has attended a workshop on *'Syllabus Formation for Instrumentation and Control—2019 Course'* by SPPU.

Prof. Pratima Kulkarni has attended STTP on *'Recent Trends'.*

Dr. Vaishali Upadhye attended workshop on *'Advanced Industrial Automation Training for Engineering Education and Research'.*

Dr. Nivedita Daimiwal & Dr. Revati Shriram has attended FDP on *'Administrative Capacity Building'.*

Dr. Revati Shriram has attended the ATAL FDPs on *'Instrumentation, Signals and Images for the Evaluation of Physiological Systems'* & *'Sustainable Change Management in Technical Institute for NEP -2020 Implementation'.*

Dr. Revati Shriram has attended FDP on *'Intellectual Property Rights (IPR) & Advance Learning in Research & Innovation'.*

Department Toppers of Year 2021 - 2022

Ms. Dipika Deogadkar
(9.27/10)

Ms. Tanisha Gite
(9.13/10)

Ms. Sayali Kulkarni
(9.12/10)

Ms. Madhu Athanikar
(9.02/10)

Ms. Madhura Deshpande
(8.91/10)

You are moving on to a new and exciting chapter in your life.
We wish you all the best for the future that lies ahead.

Best Outgoing Student of the Year 2022

Dipika Kishor Deogadkar, is the Best Outgoing Student for the Year 2022. A very sincere, polite and hardworking student with excellent academic record. In her four-year engineering she has excelled in academics as well as co-curricular and extra-curricular activities.

She bagged the Eaton Pratibha Scholar award in the year 2021. She is also a recipient of Lila Poonawalla Foundation Scholarship. Process Automation always intrigued her. She decided to take her interest ahead and completed internship in Suez water technologies. With successful completion of two projects in the internship period, she got the pre-placement offer in Suez. She has also completed her mini project in the same domain. Her Final Year B. Tech Project was Automatic Door Opening System using PLC sponsored by IFM Electronics. She has proactively completed certification of online courses by NPTEL and Coursera.

Dipika always participated actively in the co-curricular and extra-curricular activities. To name a few, she was a team member of Department Newsletter – MAPAN, Robotics Teaching Volunteer at Bhumi, and volunteer at Ignite Fest with Bhumi. She had volunteered in college technical and cultural events and also Completed 'Mentor to Go' virtual mentorship.

Congratulations!!

Best Wishes to Dipika for her Future Endeavors!!

Co-Curricular & Extra Curricular Activities

Innovative Business Idea Competition

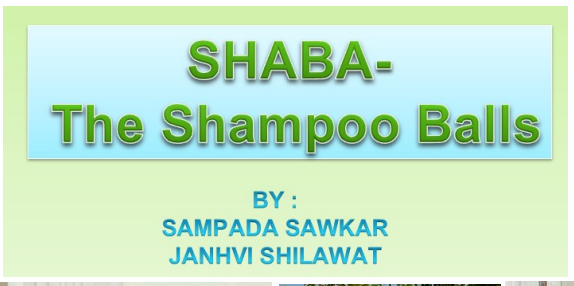

Certificate of Achievement

This is to certify that

SAMPADA SAWKAR

has participated in the 'Innovative Business Idea Competition 2021' held on 26 and 27 Nov 2021 organized by Cummins College of Engineering for Women and has been awarded First position in the competition.

Dr. Madhuri Khambete, Principal (CCOEW) | Mr. Makarand Velankar, Head of the Startup and Innovation Cell | Dr. Seema Rajput, Faculty Co-ordinator for Startup and Innovation Cell | Dr. Mallini Bapat, Faculty for startup activities




Certificate of Achievement

This is to certify that

JANHVI SHILAWAT

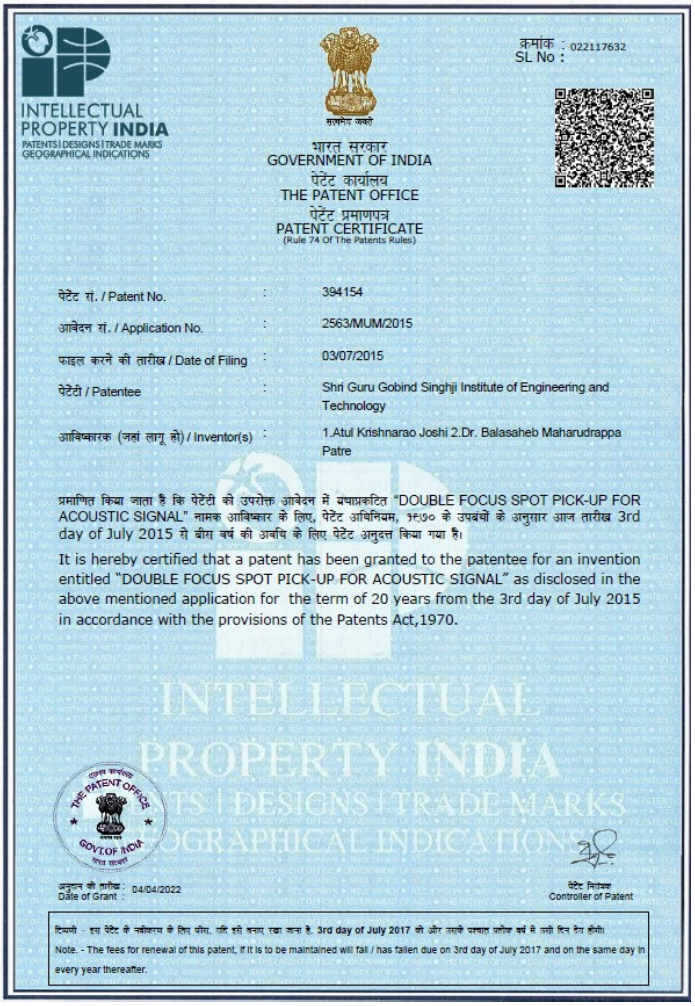
has participated in the 'Innovative Business Idea Competition 2021' held on 26 and 27 Nov 2021 organized by Cummins College of Engineering for Women and has been awarded First position in the competition.

Dr. Madhuri Khambete, Principal (CCOEW) | Mr. Makarand Velankar, Head of the Startup and Innovation Cell | Dr. Seema Rajput, Faculty Co-ordinator for Startup and Innovation Cell | Dr. Mallini Bapat, Faculty for startup activities

Best Class Award of 2021—2022 at College Annual Cultural Event—GANDHAR 2022

(Final Year B. Tech Instrumentation and Control)

Patent Granted



कमांक : 022117632
SL No :

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 Of The Patents Rules)

पेटेंट सं. / Patent No.	:	394154
आवेदन सं. / Application No.	:	2563/MUM/2015
फाइल करने की तारीख / Date of Filing	:	03/07/2015
पेटेंटी / Patentee	:	Shri Guru Gobind Singhji Institute of Engineering and Technology
आविष्कारक (जहां लागू हो) / Inventor(s)	:	1.Atul Krishnarao Joshi 2.Dr. Balasaheb Maharudrappa Patre

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में प्रथाप्रकटित "DOUBLE FOCUS SPOT PICK-UP FOR ACOUSTIC SIGNAL" नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 3rd day of July 2015 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled "DOUBLE FOCUS SPOT PICK-UP FOR ACOUSTIC SIGNAL" as disclosed in the above mentioned application for the term of 20 years from the 3rd day of July 2015 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 04/04/2022
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 3rd day of July 2017 को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 3rd day of July 2017 and on the same day in every year thereafter.

Title of the Patent Granted by Indian Patent Office:

Double Focus Spot Pick-Up for Acoustic Signal

Name of Inventors:

1. Atul Joshi
2. Balasaheb Patre

Double Focus Spot Pick-up is an apparatus which captures the acoustics signals originating from an excited engineering component. The apparatus comprises an acoustic to electric converter (pick-up) fixed at the internal focus of the ellipsoid. The engineering component under test is to be kept at the other focus outside the ellipsoid. The component under test is to be excited acoustically. Upon excitation of the component, it emits an acoustics signal. The acrostic signal is captured by the pick-up and processed further by a signal conditioner for extraction of the acoustic signature. The acoustic signature is used to detect faults in the component under test and reduces the quality control time.

HEARTY CONGRATULATIONS DR. ATUL JOSHI !

Patents Published

PATENTS PUBLISHED

Ms. Arya Dethe, Ms. Shruti Dharmadhikari, Ms. Harshada Paralkar & Dr. Atul Joshi, 'System of Detecting Flatness on Wheels of Railway Vehicle and Method Thereof'.

Ms. Vaidehi Deoskar, Ms. Pooja Kulkarni, Ms. Tejaswini Dengade & Dr. Revati Shriram, 'System for Mental Workload Assessment and Method Thereof'.

Ms. Radhika Nibandhe, Ms. Rashmi Atre, Ms. Akshada Shinde, Ms. Achal Gularia & Dr. Revati Shriram, 'System Non-Invasive System for Detection of Parkinson's Disease and Method Therefor'.

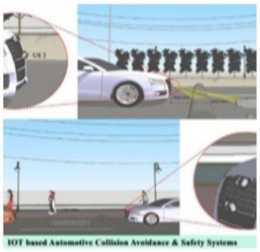
CONGRATULATIONS !! ..AND THE BEST WISHES!!

Forbes Marshall Project Award &

Kedar Tumne Project Award 2021—2022

Third Year B.Tech (Instrumentation & Control) students **Lokita Bhoge, Binita Jiby, Hrithika Pembarti, Sakshi Phadatare** were the winner of a Kedar Tumne College Level competition and Forbes Marshall Project Award. Work was carried out on ***'IoT Based Automotive Collision Avoidance and Safety System'*** and **Prof. Dipali Ramdasi** extended her guidance for the said final year project.

Road accidents have been a major cause of concern in India and also worldwide. Every developing country has a major issue of maintaining roads, after every monsoon, the conditions of roads worsen which leads to unsafe roads and becomes the cause of increasing accidents. According to the Global status report on road safety, the total number of deaths caused due to road accidents has leveled out at 1.3 million a year. India faces the highest number of accidents and accidental fatalities in the world. Due to a variety of factors driving becomes unsafe. One of the major reasons, among them, is due to potholes, humps and collisions between vehicles. To take care of this issue, project exhibits the thought and execution of an Automotive Collision Avoidance and Safety system utilizing Internet of Things (IoT). The purpose of the project was to sense the object distance, pothole distance and the hump distance using an ultrasonic sensor to check if the values obtained are in normal condition. If they reach beyond the specified limit, then it alerts the driver using a Visual alarm (LED), an Audio alarm (Buzzer) as well as a message alert will be sent to the person. It also displays the object distance from the vehicle and shows respective alerts on the LCD Display. The system also has a provision for locating the position of an accident. This is achieved by adding a GPS and GSM module in the system. The system has provision for Vehicle-to-Vehicle communication (V2V) for better data transmission which is established using Li-Fi Technology.

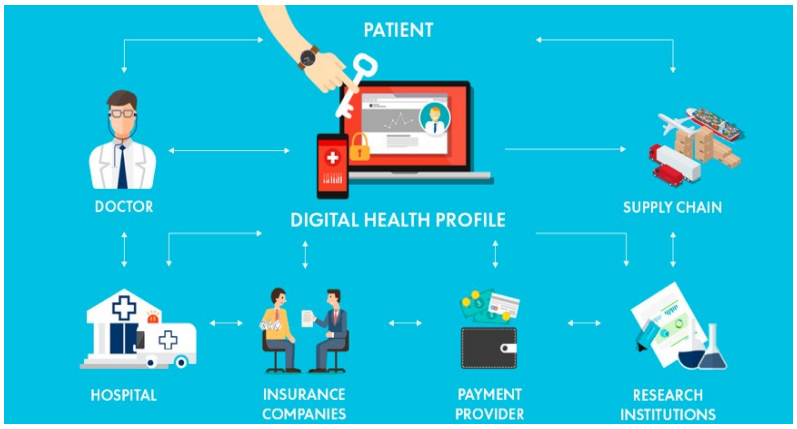


Hearty Congratulations to the Winning Team & Project Guide!

Blockchain In Healthcare

Blockpharma Enables Drug Traceability

Blockpharma, a French startup, develops blockchain-based drug traceability and anti-counterfeiting solution. The Blockpharma app allows the consumer to instantly check the authenticity of the drug box. BlockPharma integrates with multiple information systems and stores authenticated data on medicines stored on Crystalchain, the startup's private blockchain. Upon detection of a falsified medicinal product, the laboratories immediately alert BlockPharma which then adds the medicine to

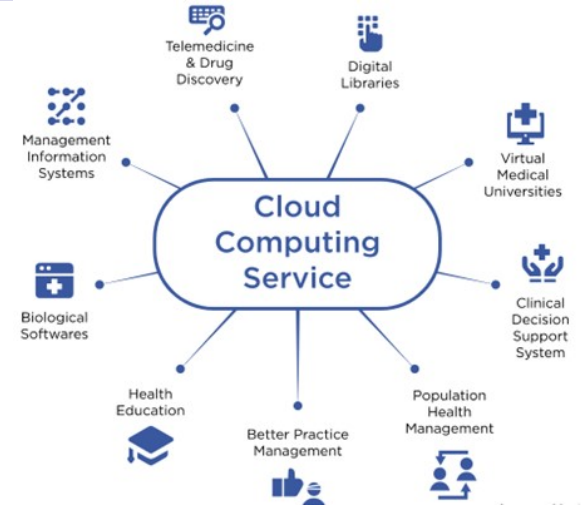


Iryo Moshi provides a Practice Management Tool

Slovenian startup Iryo Moshi provides a modern practice management tool for private healthcare providers. The startup specializes in blockchain, interoperability, open EMR, consumer relationship management (CRM) areas, and provides an integrated digital healthcare platform. The platform features automated appointments, invoicing, clinical data storage and management, and digital documents and forms. The solution is cloud-connected and also is compliant with General Data Protection Regulation (GDPR) and Health Insurance Portability and Accountability Act (HIPAA).

Source: https://www.startus-insights.com/innovators-guide/top-10-healthcare-industry-trends-

Cloud Computing in Mental Health Monitoring



Source: https://www.leewayhertz.com/cloud-computing-in-healthcare/

Radmol AI improves Access to Healthcare

Irish startup Radmol AI utilizes the latest advancements in cloud computing, data analytics, blockchain, and AI-based technology. It provides a platform for connecting patients and healthcare providers to local and global expert radiologists on-demand. The startup's technology enables accessing reports from anywhere, at any time. It creates solutions that democratize access to healthcare, enabling patients, physicians, and providers.

Source: https://mental.jmir.org/2021/12/e32948

Medified offers Mental Health Monitoring

Finnish startup Medified provides cloud-based dynamic mental health monitoring software. The software as a service (SaaS) platform aids physicians to monitor patients in real-time, helping patients get the right treatment faster and more efficiently. The software analyzes clinical data and provides valuable clinical insights, enabling remote, digital healthcare services with an interactive dashboard. It allows patients to capture and communicate daily mood and well-being to provide healthcare professionals self-treatment information in real-time.

Source: https://www.startus-insights.com/innovators-guide/top-10-healthcare-industry-

Awards Received

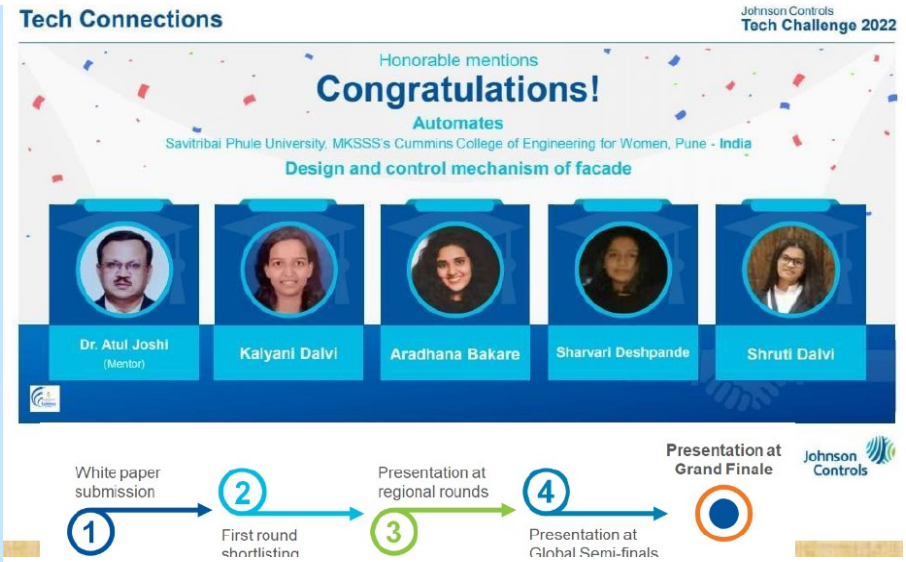
Pratibha Excellence Award by Eaton, is a unique program that aims at encouraging multifaceted women engineering talent in India through educational scholarships of prize money 60,000 INR. Eaton Pratibha Excellence Scholarship is awarded to three girls every year pursuing engineering from five different reputed colleges all over India.

In Year 2021—2022, **Ms. Dipika Deogadkar** and **Ms. Indraja Patil** from Dept of Instrumentation and Control were the recipients of Pratibha Excellence Award.

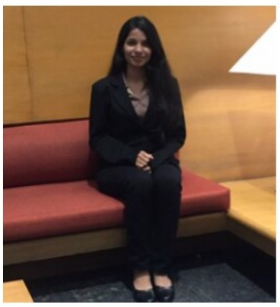
Congratulations Dipika & Indraja!!

Ms. Kalyani Dalvi, Ms. Aradhana Bakare, Ms. Sharvari Deshpande & Ms. Shruti Dalvi bagged Special Mentioned Prize at Global Event Tech Challenge 2022 at Johnson Controls. Team worked on the title '***Design and Control Mechanism for Façade***' and **Dr. Atul Joshi** served as a mentor for winning team.

Hearty Congratulations to all the Team Members!!



ISA Foundation Scholarship Award



This year, **Ms. Indraja Patil** bagged the prestigious ISA Award. International Society of Automation (ISA) Educational Foundation Scholarship Award with a prize money of 3000 USD. ISA Educational Foundation Scholarship is awarded to ten or eleven people every year across the world and I'm extremely proud to be one of the recipients. **Dr. Swati Madhe** is the Faculty Advisor of CCOEW ISA Student Chapter.

Congratulations Indraja!!!

Placement & Internships for year 2021 - 2022

PLACEMENTS

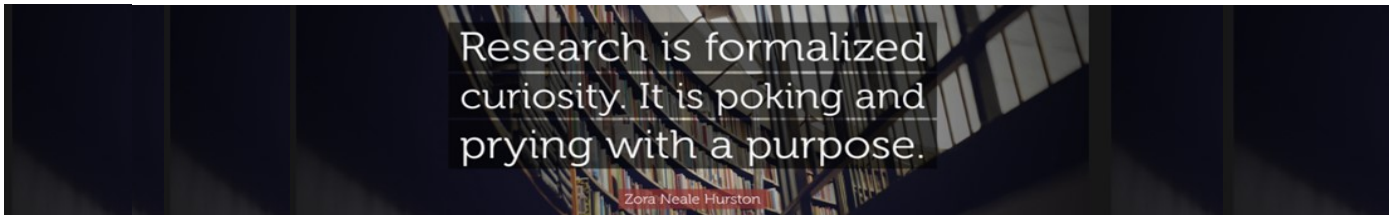
- ***Baxter**: Rishika L*
- ***Ather Energy**: Binita J*
- ***Schneider Electric**: Isha P, Aadnya B*
- ***Deloitte:** Yugashree B, Tanmaye C, Vaishnavi G*
- ***Addverb:** Saniya G, Neha P, Sayali K*
- ***JCB**: Sampada S, Vaishnavi K, Radhika B*
- ***Aditya Birla Group:** Sushmita S, Shreya A, Vaishnavi T, Pradnya K, Gouri G, Lokita B, Sakshi B*
- ***Ford Motor**: Madhu A*
- ***Suez Waters**: Maithili D, Dipika D, Anushka G*
- ***Honeywell:** Vishakha K. Snehal K, Deepali D, Gargi K, Nishigandha, Sanaya M, Trupti K, Ankita G, Swarali S*
- ***Linde:** Poonam N, Tanisha G, Aditi J, Tanishqa K*
- ***Demanic**: Yashshashri D, Hritika P, Rutuja M, Gauri P, Pratiksha P, Rohini J*
- ***Johnson Controls**: Rutuja K, Devika G, Roshni D*
- ***Tox:** Rutuja D, Uthkarsha G*
- ***Amazon**: Arati J*

SUMMER INTERNSHIPS

In the AY 2021—2022 eighty nine students (S.Y., T.Y. and Final Year B.Tech) from the department have completed the Industrial/Hospital Internship of four or more weeks.

- *Indian Oil*
- *Stealthmode*
- *Unitech Automation Pvt Ltd*
- *Stretto*
- *Buumer*
- *Seuz*
- *Propix*
- *Amazon*
- *Dynomerk Conttols*
- *Santron Meditronic*
- *Systech*
- *Force Motor*
- *Techport solutions*
- *Safe air*
- *Forbes Marshall,*
- *Wipro-Pari*
- *ISMT*
- *FM Electronic*
- *Accolade,*
- *Tata technologies,*
- *Logicon Technosolutions Business Web soltions*
- *SPA Instruemnets,*
- *Concord Technologies*
- *Shree Industries*
- *Mikro Innotech*
- *Goldman sachs*
- *Shriyantra Controls pvt Ltd*
- *Vaspa Engg Service*

Publications by Students & Faculty in 2021 - 2022



Sumedha Mujoo, Anjali Sharma, Kamini Gaikwad, Swati Madhe, Atul Joshi, Subrahmanyam Sista, Mamta Khatape, "*Smart Irrigation System using IoT based Control Valve*", Asian Conference on Innovation in Technology, ASIANCON 2021, August 2021, Pune.

https://doi.org/10.1109/ASIANCON51346.2021.9544988

Nivedita Daimiwal & Revati Shriram, "*Case Study Based Learning for System Development*", Graduate Research in Engineering and Technology (GRET), Vol 1, Issue 8, Article 10.

https://doi.org/10.47893/GRET.2022.1150

Yashwant Adhav, Dayaram Sonawane & Chetankumar Patil, "*Novel Micro Flow Sensor for Air Purge Method to Monitor the State of Charge for Lead Acid Battery*", 4th International Conference omn Intelligent Circuits and Systems, IOP Publishing, 2327 (2022) 012004.

https://doi.org/10.1088/1742-6596/2327/1/012004

Anagha Panditrao, "*Augmenting Student's Efficacy through Experiential Learning*", presented paper in the National Conference on Pedagogy for Higher Education, 25th June 2022, Pune.

Pratima Kulkarni & Dipali Ramdasi, "*Project Based Learning Technique for Holistic Development of Students*", presented paper in the National Conference on Pedagogy for Higher Education, 25th June 2022, Pune.

Vaishali Upadhye, Swati Madhe & Atul Joshi, "*Project Based Learning as an Active Learning Strategy in Engineering Education*", presented paper in the National Conference on Pedagogy for Higher Education, 25th June 2022, Pune.

Dipali Ramdasi & Pratima Kulkarni, "*Industrial Internship: An Experiential Learning Pedagogy for Outcome Based Education in Higher Educational Institutes*", presented paper in the National Conference on Pedagogy for Higher Education, 25th June 2022, Pune.

Immersive Technology

The use of immersive technologies, such as AR/VR and MR, is on the rise in the healthcare sector. Applications for **VR in healthcare** vary from rehabilitation therapy and exposure therapy anxiety disorders to aiding in cognitive and physical rehabilitation. AR/VR also plays an important role in medical education. Immersive technologies also find applications in surgery, for instance for the perioperative projection of patient information, holographic images, and scans.

VRSANO develops a Brain-Computer Interface:
VRSANO is a US-based MedTech startup that develops a brain-computer interface. Its technology combines VR, neurofeedback, and clinical hypnosis principles to optimize health outcomes. The startup's patented method pulls medical patients out of a state of distress by immersing them in a relaxing virtual world. It induces a psychophysiological state that helps patients with their mental health needs. The platform alleviates symptoms and improves long-term patient outcomes while lowering healthcare costs.

Rescape Innovation suports Patient Care: British startup **Rescape Innovation** develops immersive technologies to support patient care in both adults and children. The startup specializes in virtual reality (VR) distraction therapy to support pain and anxiety/stress management. The solution offers cystic fibrosis (CF) patients to view therapeutic documentaries, wherein they can travel among the planets in the solar system or experience surfing, skydiving, and other adrenaline-fueled activities. The startup's interventions reduce anxiety in patients.

Source: https://www.startus-insights.com/innovators-guide/top-10-healthcare-industry-trends-innovations-in-2021/

Women Entrepreneurs

Neha Narkhede is an Indian American technology entrepreneur and the co-founder and former CTO of Confluent, a streaming data technology company. She co-created the open source software platform Apache Kafka. Narkhede serves as a board member of Confluent. While working at LinkedIn in 2011, Narkhede created the Platform Apache Kafka, along with Jun Rao and Jay Kreps. They came up with the idea while on a project at the company and developed Kafka as an open source Platform. In 2014 she founded Confluent, a Palo Alto based startup, along with Rao and Kreps and decided to start Confluent as a B2B infrastructure company. In 2017 she co-authored Kafka: The Definitive Guide along with Gwen Shapira and Todd Palino which is about the technology that created Kafka. She and her team at Confluent raised $125 million in 2019, bringing its total funding to $206 million in 2019. And in April 2020, the company raised $250 million bringing its total funding to $456 million. Confluent as a company has filed for an IPO on June 1, 2021 and was valued at $4.5 billion. Companies such as Goldman Sachs, Netflix and Uber use the platform for data driven purposes.

Source:Neha Narkhede (forbes.com)

Vani Kola is an Indian venture capitalist. She is the founder and managing director of Kalaari Capital, an Indian early stage venture capital firm. She was listed as one of the most powerful women in Indian business by Fortune India in 2014. Kola had a 22-year career in Silicon Valley. A serial entrepreneur, she was the founder and CEO of the e-procurement company RightWorks, selling the company to ICG after four years for $657 million. She was then the founder and CEO of Certus Software. Kola returned to India in 2006, after her successful career as an entrepreneur in Silicon Valley, to start a venture capital firm in India, drawn to the growing Indian opportunity. Under Kola's leadership, the firm has grown to have US$650 million in assets under management. Kola is the managing director of Kalaari Capital. She is a technology-focused early-stage investor and works with entrepreneurs to build global companies, leveraging India's domestic growth to create high growth enterprises. Kola has led investments in e-commerce, mobile services, education and healthcare. Some of her notable venture capital endeavors include: Dream11, Snapdeal, & Myntra.

Source:- https://vanikola.com/

Upasana Taku is one of the most successful women entrepreneurs who is not just the founder of Zaakpay but also co-founder of Mobikwik. Zaakpay provides service to solve the payment issues for eCommerce. And Mobikwik makes payment easier through mobile phones. In 2014, Mobikwik received an award called mBillionth Award South Asia in the category of mobile business. Seeing the internet issues in a small town, they launched a new app called Mobikwik Lite, the app work very well even in 2G speed. In 2015, Upasana did a partnership with Uber and launched the Mobikwik payment gateway, so that you can pay the Uber cost through the Mobikwik app. If we see her incentive idea, it is really making our life easier. On 8 November 2017, IDFC Bank shaked hand with Mobikwik digital Payment solution to launch a co-branded virtual Visa prepaid card for Mobikwik customers. In March 2017, Mobikwik became a big competitor of Paytm. Mobikwik also has an international pattern like GoDaddy and many others which help them comply with Indian payment regulation. According to the Mobikwik website, the company is backed by Tree Line Asia, American Express, and Marquee investors.

Source:https:wow.outlookbusiness.com/upasana-taku/

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Alumnae Corner

Dept of Instrumentation and Control is thankful to our alumnae for their support through out the last year. In the last year our department alumnae have helped us in many ways viz by conducting guest lectures and sharing their experiences about management, self discipline and for generous support towards the Bhaubij Nidhi.

We are always grateful towards the generous support extended by our department alumni in various way. We kindly request you to all to share your achievements and we will be glad to showcase them always! ……. THANK YOU!!

We are proud of your accomplishments. We are confident that you will continue with even more successes…
Best Wishes for the future!!
&
Thank you for your support!

aivara solutions LLP

Shalmali Kadu
Co-founder, Business Developer

Medha Moorching
Co-founder, Technology Head

aivara solutions LLP
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Shalmali and Medha are the B. Tech Instrumentation and Control Engg from the of Batch 2020. They are the founder of Aivara Solutions LLP, an AI-based start-up from Pune focused on creating innovative and economical solutions for environmental monitoring. With the mission is to solve complex industry problems using the cutting-edge technology and a vision of the leading organization with climate conscious technology. It is DPIT recognized start-up who specialises cutting edge technologies such as AI/ML, cloud computing, Image Processing and Deep Technology.


Nexus: The Innovation Hub
American Center, New Delhi
awards this
CERTIFICATE
to
Shalmali Kadu
of
Aivara Solutions
in recognition of successful completion of the
Nexus Pre-Incubation Program
Thirteenth Cohort
New Delhi, India
14th June to 13th August 2021

1st Runner-up of TiE Pune BizQuotient Competition with cash prize of Rs. 30,000

Congratulations & Best Wishes .. Shalmali Medha & Team!!


SCIENCE AND TECHNOLOGY PARK
UNIVERSITY OF PUNE
Supported by Department of Science and Technology, Government of India

STP/ NIDHI-EIR/243
30 March 2021

To
Ms. Shalmali Kadu
Woodland Soc, B-Building, Flat No. 37
Near Gandhi Bhavan Hall, Kothrud
Pune 411038 (Maharashtra)

Subject: NIDHI-EIR grant in aid allotment letter

Dear Shalmali,

Congratulations for being selected under **Entrepreneur-In-Residence (EIR)** programme of Science and Technology Park, Pune (Scitech Park)!

EIR is supported by NSTEDB, Department of Science and Technology, Government of India under the umbrella programme named **National Initiative for Developing and Harnessing Innovations (NIDHI)**. You will be referred henceforth as an EIR; and your registration number is **STP/EIR/20210330/04**.

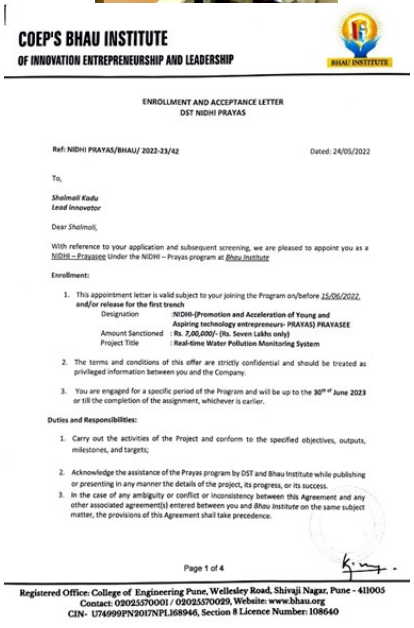
On behalf of Scitech Park, I am happy to inform you that after detailed scrutiny, you are selected for this unique programme for your innovative idea "**Water Pollution Monitoring using Artificial Intelligence**". Scitech Park NIDHI-EIR programme committee has recommended supporting you with Rs. 30,000/- (Rupees Thirty Thousand Only) every month for 12 (Twelve Only) months. You are going to be an incubatee of Scitech Park and are eligible for receiving support extended under incubation programme.

Please note, the above mentioned support will be extended only after you enter into an agreement with Scitech Park having specific terms and conditions to meet the objectives of NIDHI-EIR programme.

I look forward to having you onboard.

Best wishes,

Hardik Joshi
Director | Entrepreneur Engagement and Training
NIDHI-EIR | Programme Coordinator


COEP'S BHAU INSTITUTE
OF INNOVATION ENTREPRENEURSHIP AND LEADERSHIP

ENROLLMENT AND ACCEPTANCE LETTER
DST NIDHI PRAYAS

Ref: NIDHI PRAYAS/BHAU/ 2022-23/42 Dated: 24/05/2022

To,
Shalmali Kadu
Lead Innovator

Dear Shalmali,

With reference to your application and subsequent screening, we are pleased to appoint you as a NIDHI – Prayaseе Under the NIDHI – Prayas program at *Bhau Institute*

Enrollment:

1. This appointment letter is valid subject to your joining the Program on/before 15/06/2022, and/or release for the first tranch
   Designation :NIDHI-(Promotion and Acceleration of Young and Aspiring technology entrepreneurs- PRAYAS) PRAYASEE
   Amount Sanctioned : Rs. 7,00,000/- (Rs. Seven Lakhs only)
   Project Title : Real-time Water Pollution Monitoring System
2. The terms and conditions of this offer are strictly confidential and should be treated as privileged information between you and the Company.
3. You are engaged for a specific period of the Program and will be up to the 30th of June 2023 or till the completion of the assignment, whichever is earlier.

Duties and Responsibilities:

1. Carry out the activities of the Project and conform to the specified objectives, outputs, milestones, and targets;
2. Acknowledge the assistance of the Prayas program by DST and Bhau Institute while publishing or presenting in any manner the details of the project, its progress, or its success.
3. In the case of any ambiguity or conflict or inconsistency between this Agreement and any other associated agreement(s) entered between you and *Bhau Institute* on the same subject matter, the provisions of this Agreement shall take precedence.

Page 1 of 4

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