

ADYPU NEWSLETTER

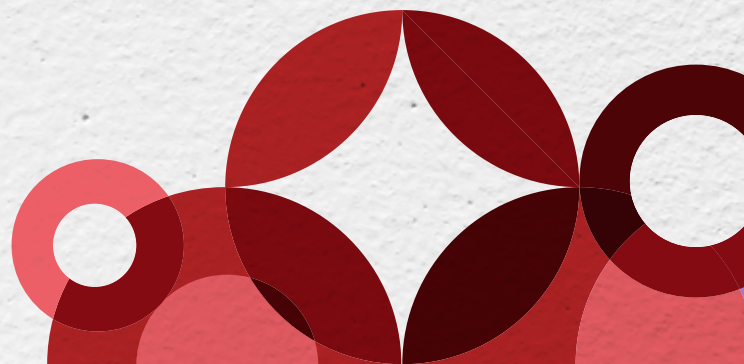
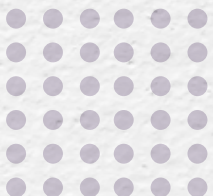
Leading
the way in
Innovative
Education



AJEENKYA
D Y PATIL UNIVERSITY
THE INNOVATION
UNIVERSITY



JANUARY 2025



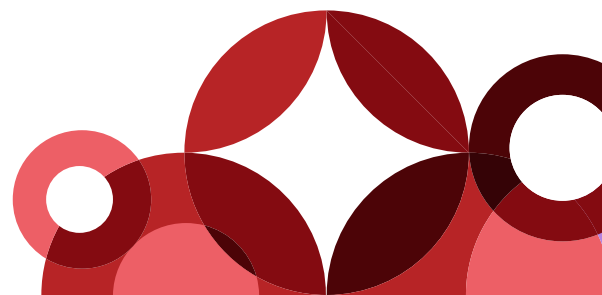
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**TEACHING IGNITES MINDS AND
LEARNING SHAPES FUTURES—TOGETHER,
WE CREATE A LEGACY OF KNOWLEDGE.**

Dr. Rakesh Kumar Jain
Vice Chancellor, ADYPU

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Editor's Message



Dear Readers,

Welcome to the new semester!

The campus is abuzz with academics, research and preparations for the upcoming convocation, a landmark event for the university. Placement drives are in full swing, keeping the momentum high.

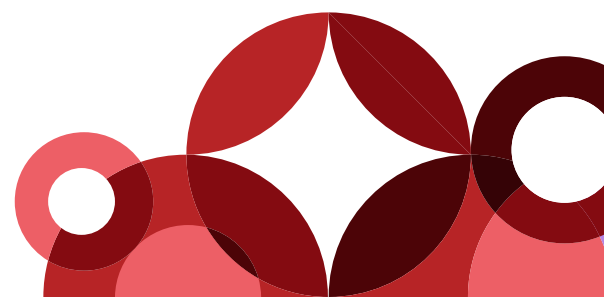
This month, ADYPU achieved a significant milestone by partnering with Washington D.C.'s Global Policy Institute (GPI), becoming the first Indian university to collaborate with this think tank. Led by Dr. Nishakant Ojha, our counter-terrorism expert, and Prof. Paul von Schirach of GPI, this partnership will focus on Indo-Pacific security, global governance, and policy research, providing students and faculty with international research and learning opportunities.

As we dive into 2025, the year promises exciting opportunities for academic growth, research advancements, and global connections. Together, let's continue the momentum where excellence in education and research leads the way. Let's make the most of this semester, pushing boundaries and achieving new heights in our endeavors.

Best Wishes

Sukhvinder Kaur Multani

Editor, Deputy Dean – R & D
Ajeenkya DY Patil University



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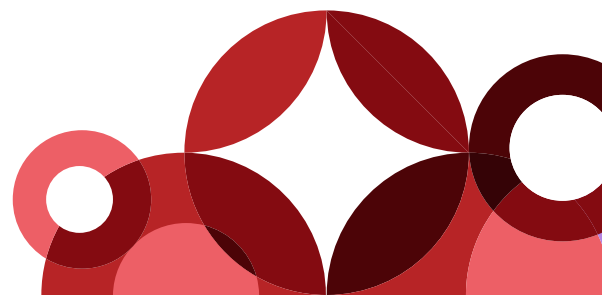
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SOA



Dr Vijay Varadarajan
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International Division



Mr Sourabh More
Event Correspondent,
ADYPU



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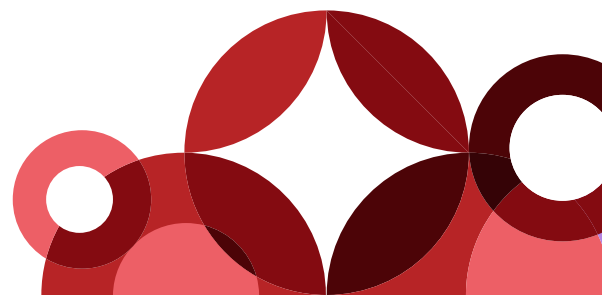
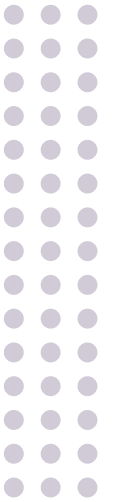
4. Students Corner

5. International Collaborations

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Academic Highlights

Android Study Jams

The School of Engineering successfully conducted an engaging **“Android Study Jams”** coordinated by Dr Vishal Shirsath workshop on 17th January 2025, organized by the Google Developer Group (GDG) team. Coordinated by Dr. Vishal Shirsath, Associate Dean and Faculty Coordinator of GDG, along with Aryan Sinha and Manas Hiremath.



Vision and Mission

The Biotechnology Engineering Department has launched its vision and mission. The vision emphasizes becoming a center of excellence by delivering education of international standards to produce innovative and entrepreneurial engineers. The mission includes providing foundational and advanced knowledge in biotechnology, enhancing students' global reputation through academic activities, and equipping them with skills in molecular biology, genetic engineering, bioinformatics, and other specialized fields.



Study Tour of Urban Fabric of Navchokhiya

A study tour was organized for the Third Year Students of Architecture from the 5th to the 13th of January 2025 to Rajasthan. The area of study was the Urban Fabric of Navchokhiya, Jodhpur, and objective of the was to study the land use, Transportation, Infrastructure, Amenities and Administrative Development Plan of the towns, coming under the jurisdiction of Jodhpur Municipal Council photography. In all it was a thrilling experience for the students.



students, together with PHD researcher scholars Prof. R.T. Golgire (Dean SOA) and Prof. Amit Shirke, attended the workshop and learnt a lot about the field of architectural research.

ARCHITHINK, a one-day architectural research session hosted by Anantrao Pawar College of Architecture in Pune. The workshop was scheduled for **January 10, 2025**, on their campus.

Leading speakers from SPPU and BNCA in Pune were Dr. Shubhada Nagarkar, Dr. Rajendra Kumbhar, and Dr. Swati SahastraBuddhe. Their primary area of interest was architecture research, including its technique, ethics, and process. Five fourth-year B.Arch



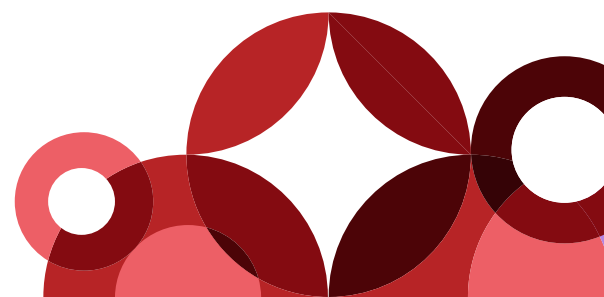
BUILDING INFORMATION MODELLING WORKSHOP BY eXperTECH Mumbai

A Building Information Modelling(BIM) Awareness workshop was conducted on the 23th Jan 2025 for Third, Fourth and Fifth year students of B.Arch and M.Arch in association with the professionals from the industry eXperTECH, Mumbai.

The objective of the workshop was to give students exposure to BIM and boost students' career prospects. The workshop was coordinated by Prof. Swati Solunke and Prof. Pooja Godbole under the mentorship of Prof. R.T. Golgire.



Announcing
BIM AWARENESS WORKSHOP
For the students of Architecture
Conducted by
eXperTECH
ELEVATE YOUR CAREER IN CONSTRUCTION
LEARN FROM THE EXPERTS
In Collaboration with:
Dr. DY Patil School of Architecture, Lohegaon, Pune
Date : Thursday, 23rd Jan 2025 Time : 1:00 PM to 3:00 PM
Venue - First floor, School of Architecture
Unlock Your Future with BIM, and Boost Your Career!
+91 85914 77900
expertech@studio4.in | www.studio4.in
Workshop Coordinators: Prof. Swati Solunke, Prof. Pooja Godbole, eXperTECH
Conducted for: 3rd, 4th and 5th year of B.Arch



Campus Highlights

Team Hyperloop

Team Hyperloop coordinated by Dr Debanjali Roy and Prof. Yashodhan Sonwane at the School of Engineering (SOE), actively engaged in three significant activities aimed at fostering innovation and technical expertise. On January 8, 2025, a guest lecture by Mr. Krishna Gupta provided students with insights into Hyperloop technology, focusing on magnetic levitation, propulsion, and sustainable transportation systems.



Army Day Visit coordinated by Dr Ravi Gandhi

On January 3, 2025, the faculty and students from the School of Engineering at Ajeenkya DY Patil University visited a commemorative Army Day event to honor the valor and dedication of the Indian Armed Forces.



Networking Nexus

Cyber Alchemist Club team coordinated by Dr Amol Kasture and Prof. Priyanka Nalawade, SOE successfully conducted an insightful **'Networking Nexus'** on January 23, 2025 where over 70+ students participated. This Seminar provided an excellent opportunity for students to enhance their Cybersecurity & Networking skills.



Arduino-based Robotics and Automation

The Engineering Innovation Centre (EIC) and Tech AutoBoTix Club (TAC), School of Engineering, jointly conducted a hands-on 30-hours Value-Added Program on Arduino-based robotics and automation from 22 to 24 January 2025.



ADYPU and Reliance Jio Forge a Pioneering Partnership

We are excited to announce a game-changing partnership with Reliance Jio, led by Shri Sunil Gosavi, Vice President and esteemed ADYPU alumnus.

This collaboration is designed to bridge the gap between academia and industry, with a special focus on enhancing curriculum development and fostering student growth in the fields of telecommunications and electronics. With over 34 years of industry expertise, Mr. Gosavi and his team will play a key role in equipping ADYPU students with multidisciplinary skills to tackle future challenges.



Mission Praj: A Green Legacy for a Sustainable Future

Mission Praj, a heartwarming initiative by the Rotaract Club of Ajeenkya DY Patil University in partnership with NSS ADYPU, is committed to greening our planet. Through this impactful event, we came together to plant trees in memory of our loved ones, creating a beautiful, lasting legacy. Each tree planted today represents more than just a sapling — it's a promise to a healthier, greener tomorrow. These trees will not only enhance our surroundings with shade and beauty, but they will also contribute to cleaner air, fertile soil, and a more harmonious ecosystem for generations to come.



Historic Partnership with Global Policy Institute to Drive Geopolitical Research and Strategy

Ajeenkya DY Patil University (ADYPU) has forged a groundbreaking collaboration with the Global Policy Institute (GPI) of Washington D.C., making ADYPU the first Indian university to partner with this prestigious institution. The partnership, driven by Dr. Nishakant Ojha, a renowned expert in counter-terrorism and geopolitical strategy, aims to advance research on Indo-Pacific security and global governance.

ADYPU signed an exclusive MoU with the prestigious Global Policy Institute (Washington, D.C.), becoming the first Indian university to achieve this remarkable honor. The MoU emphasizes collaborative research, technical exchanges, and the development of strategic policy frameworks to address critical geopolitical challenges. Dr. Ojha and Prof. Paolo von Schirach, President of GPI, are excited to work together, bridging academic expertise and policy-making to tackle global issues.



Ajeenkya DYPU and GPI sign MoU to foster academic collaboration

The Global Policy Institute (GPI) of Washington, D.C., and Ajeenkya DY Patil University (ADYPU) have signed a Memorandum of Understanding (MoU) to foster academic collaboration and research on Indo-Pacific security and global governance. The MoU was signed by Dr. Nishakant Ojha, ADYPU's Vice-Chancellor, and Prof. Paolo von Schirach, GPI's President. The agreement marks a historic milestone as ADYPU becomes the first Indian university to partner with GPI. The MoU emphasizes collaborative research, technical exchanges, and the development of strategic policy frameworks to address critical geopolitical challenges. Dr. Ojha and Prof. von Schirach are excited to work together, bridging academic expertise and policy-making to tackle global issues.

सागना

'अजिंक्य डी. पाटील'चा ग्लोबल पॉलिसी इन्स्टिट्यूटसोबत करार

पुणे, १५ जानेवारी - अजिंक्य डी. पाटील यांच्या नेतृत्वाखाली असलेल्या अजिंक्य डी. पाटील युनिव्हर्सिटी (ADYPU) आणि ग्लोबल पॉलिसी इन्स्टिट्यूट (GPI) यांच्यात एक ऐतिहासिक करार झाला आहे. या करारातून अजिंक्य डी. पाटील युनिव्हर्सिटी ही पहिली भारतीय विद्यापीठ बनते. या करारातून अजिंक्य डी. पाटील युनिव्हर्सिटी आणि ग्लोबल पॉलिसी इन्स्टिट्यूट यांच्यात एक ऐतिहासिक करार झाला आहे. या करारातून अजिंक्य डी. पाटील युनिव्हर्सिटी ही पहिली भारतीय विद्यापीठ बनते. या करारातून अजिंक्य डी. पाटील युनिव्हर्सिटी आणि ग्लोबल पॉलिसी इन्स्टिट्यूट यांच्यात एक ऐतिहासिक करार झाला आहे. या करारातून अजिंक्य डी. पाटील युनिव्हर्सिटी ही पहिली भारतीय विद्यापीठ बनते.

इस्टाब्लिशमेंट सकार

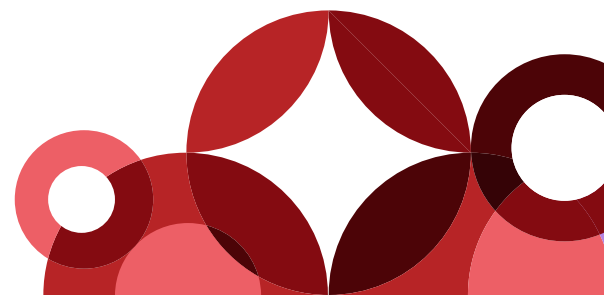
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Pune Edition
Jan 15, 2025 Page No. 8
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STPI Delegation Visits ADYPU to Explore Collaborations in Semiconductors and Innovation

Ajeenkya DY Patil University (ADYPU) had the privilege of hosting officials from the **Software Technology Parks of India (STPI), Ministry of Electronics and IT, Govt. of India**, at its campus on January 7, 2025. The distinguished delegation, led by **Mr. Ajay Shrivastava**, Director, STPI Maharashtra & Goa Directorate, along with **Mr. Sachin Purnale**, Additional Director, and **Mr. Yogeshwar Ade**, Joint Director, engaged in insightful discussions with ADYPU leaders.

Key topics included potential collaborations in cutting-edge fields such as **B.Tech programs in semiconductors**, incubation initiatives, and other areas of mutual interest.



Research Milestone

Research & Development Cell

The Research and Development Cell organized a five day offline Faculty Development Program , a step towards establishment of Association of Indian Universities - ADYPU Academic and Administrative Development Centre designed to nurture and empower current and aspiring academic leaders. The theme of the FDP was: **"Creating Quality Benchmarks for the Emergence**

of Multiple Levels of Academic Leaders. The FDP was inaugurated by Ms. Ranjana Parihar, Joint Secretary of AIU, as our Chief Guest. the AIU-ADYPU Academic and Administrative Development Centre, a significant step towards fostering excellence through capacity building in academic and administrative domain







Dr Ranjit Kumar has received the prestigious Best Paper Award at the 1st International Conference on Augmented Reality, Intelligent Systems, and Industrial Automation, jointly organized by Manipal Institute of Technology (MIT), Manipal, and Manipal University Jaipur. The awarded paper, titled **‘Identification and Evaluation of Multi-Targeted Lead Compounds for Breast Cancer Therapy Using In-Silico Approaches,’** showcases their groundbreaking research which was dated January 15, 2025.

Furthermore, Dr Ranjit has published two significant research papers: **Blockchain Solutions for Nursing: A New Paradigm in Healthcare Security and Data Management and The Role of Blockchain Technology in Supply Chain Management for Data Security**, on January 23, 2025. Blockchain Solutions for Nursing: A New Paradigm in Healthcare Security and Data Management’ and ‘The Role of Blockchain Technology in Supply Chain Management for Data Security.’



Blockchain Solutions for Nursing: A New Paradigm in Healthcare Security and Data Management

Ranjit Kumar; Ranjana Chavan;
Vishal S. Shirsath; Suyog Sanjay Gharat;
Kartik Sudhir Patil
2024 IEEE International Conference on
Blockchain and Distributed Systems Security
(ICBDS)
Year: 2024 | Conference Paper |
Publisher: IEEE

The Role of Blockchain Technology in Supply chain Management for Data Security

Dipika R. Birari; Vijay U. Rathod;
Aarti Dandavate; Nilesh Shelke; Ranjit Kumar;
Masira M. S Kulkarni
2024 IEEE International Conference on
Blockchain and Distributed Systems Security
(ICBDS)
Year: 2024 | Conference Paper |
Publisher: IEEE

A Convolutional Neural Network Model for Intracranial Tumor Detection and Classification System from MRI Scan





Dr Arjun K. Vasatkar successfully participated in and completed a 5-day AICTE Training And Learning (ATAL) Academy Faculty Development Program on Sustainable Smart Cities: Integrating Technology and Infrastructure. **“Sustainable Smart Cities: Integrating Technology and**

Infrastructure.” The program, held at MET’S Institute of Engineering from January 6 to January 11, 2025, focused on advancing knowledge in sustainable urban development and innovative infrastructure integration.



Dr Vishal Shirsath published a research paper in the International Conference on Blockchain and Distributed Systems Security (ICBDS) International Conference on Blockchain and Distributed Systems Security (ICBDS),

(bold) a Scopus-indexed conference, in January 2025. The paper, now available on IEEE Xplore, explores innovative advancements in blockchain and distributed system security, contributing valuable insights to this evolving field.





Dr Susanta Das - Dr Susanta Das had many achievements throughout the month of January 2025. Dr Susanta Das has published 3 book chapters and attended 4 FDPs throughout the month of January 2025.

Book Chapters:

- Susanta Das, Shravani Kulkarni, Jenisia Dsouza, Piyush Bhosale, Ritul Dhanwade, Khushbu Trivedi, Parineeta Kelkar, Debanjali Barman Roy, and Ranjit Kumar authored the paper **Visualization and Statistical Analysis of the Research Pillar of Top Five THE (Times Higher Education) Ranked Universities for the Years 2020-2023**, published in Semantic Intelligence by Springer Singapore in January 5, 2025.

- Khushbu Trivedi, Jenisia Dsouza, Vatsal Saxena, Shivam Kumar, Shravani Kulkarni, Susanta Das, Parineeta Kelkar, Piyush Bhosale, and Ritul Dhanwade authored the paper **Admission Prediction for Universities Using Decision Tree Algorithm and Support Vector Machine**, published in Semantic Intelligence by Springer Singapore on January 10, 2025.

- Pooja Dehankar and Susanta Das authored Chapter 8, **Next-Generation**

Behavioral Analytics: The Role of AI and ML in the Internet of Behavior, published in Mapping Human Data and Behavior With the Internet of Behavior (IoB), edited by Gunjan Chhabra, Tanu Singh, and Manoj Kumar, by IGI-Global, USA, on January 23, 2025.

Visualization and Statistical Analysis of Research Pillar of Top Five THE (Times Higher Education)-Ranked Universities for the Years 2020–2023



Susanta Das, Shravani Kulkarni, Jenisia Dsouza, Piyush Bhosale, Ritul Dhanwade, Khushbu Trivedi, Parineeta Kelkar, Debanjali Barman Roy, and Ranjit Kumar

Abstract We conducted an analysis of the research pillar in the top five universities ranked by THE for the years 2020–2023 using data obtained from THE website. To derive meaningful insights, we calculated the average research data for each year across these universities. Subsequently, we compared the research data between the 1st-ranked university and the remaining four universities, as well as between consecutively ranked universities for each year. Our analysis demonstrated variations over these years. Initially, there was an upward trend in average research performance from 2020 to 2022, followed by a decline from 2022 to 2023. Interestingly,

S. Das (✉) · S. Kulkarni · J. Dsouza · P. Bhosale · R. Dhanwade · K. Trivedi · P. Kelkar · D. B. Roy · R. Kumar
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https://doi.org/10.1007/978-981-97-7356-5_18

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Chapter 8 Next-Generation Behavioral Analytics: The Role of AI and ML in the Internet of Behavior

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ABSTRACT

IoB signifies a revolutionary growth in the digital age, expanding the potential of IoB by capturing & evaluating human behaviors through digital interactions. ML can offer novel insights that can improve patient outcomes & increase the effectiveness of IoB-based medical & healthcare procedures, which in turn can help with diagnosis, treatment protocols, & clinical decision-making. Emergence of the IoB has created new avenues for influencing and assisting human decision-making. IoB describes how digital data produced by human activity is gathered, analyzed, & used to support decision-making. Our lives could be profoundly impacted by this technology in a number of areas, including healthcare, education, finance, and transportation. This chapter discusses how IoB integrates with Explainable AI methodologies to offer a reliable experience in the process of modifying IoB behavior, which in turn influences user behavior. The IoB idea, essential elements, architecture, auxiliary technologies, applications, and problems are covered in this chapter.

DOI: 10.4018/979-8-3693-7545-7.ch008

Admission Prediction for Universities Using Decision Tree Algorithm and Support Vector Machine



Khushbu Trivedi, Jenisia Dsouza, Shivam Kumar, Vatsal Saxena, Shravani Kulkarni, Susanta Das, Parineeta Kelkar, Piyush Bhosale, and Ritul Dhanwade

Abstract Nowadays, educational institutions rely on data analytics, probability models, and a few weighted combination models to forecast which universities students are likely to gain admission to, especially prestigious institutions like IITs. The admission process considers various factors such as school scores and performance in competitive exams. Numerous machine learning algorithms have been developed to aid in admission predictions. In this study, decision tree and support vector machine algorithms were used to predict which universities students are likely to be accepted to based on the previous year's data analysis. We also discussed the accuracy of both models.

K. Trivedi · J. Dsouza · S. Kumar · V. Saxena · S. Kulkarni · S. Das (✉) · P. Kelkar · P. Bhosale · R. Dhanwade
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https://doi.org/10.1007/978-981-97-7356-5_17

Smart Cities and Mobility” (Online), Shri Balasaheb Mane Shikshan Prasarak Mandals Ashokrao Mane Group of Institutions Vathar, 30th December 2024 – 4th January 2025.

- Dr. Susanta Das attended the NEP 2020 Orientation & Sensitization Programme under the Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC). The program was organized by the Malaviya Mission Teacher Training Centre at Devi Ahilya Vishwavidyalaya, Indore, Madhya Pradesh, from 6th January to 15th January 2025.



Dr Susanta Das has attended the following FDPs -

- AICTE Training And Learning (ATAL) Academy Faculty Development Program on “Statistics for Industrial Data Analysis” (Online), Vishwakarma institute of Technology, 13th – 18th January 2025.
- AICTE Training And Learning (ATAL) Academy Faculty Development Program on “Quantum Computing: Fundamentals and Future Directions” (Online), MITADT School of Computing Pune, 6th – 11th January 2025.
- AICTE Training And Learning (ATAL) Academy Faculty Development Program on “Urban Development of



Dr. Ravi Gandhi has achieved a significant milestone with the development of a design patent for an innovative laptop stand. This design emphasizes functionality and ergonomic support, reflecting Dr. Gandhi's commitment to enhancing user comfort and productivity through innovative solutions dated January 9, 2025.



Dr Nikhil Mane published a research paper in the International Journal of Thermophysics, titled **Investigation of Effects of Vibrations on Nanofluid-Filled Pulsating Heat Pipe for Efficient Electric Vehicle Battery Thermal Management**, featured in Volume 46, Article Number 6 (2025).

Additionally, School of Engineering has signed an MoU with 3DShikshan Educational Consultancy to foster



Investigation of Effects of Vibrations on Nanofluid-Filled Pulsating Heat Pipe for Efficient Electric Vehicle Battery Thermal Management

Nikhil S. Mane^{1,2} · Vadiraj Hemadri¹ · Siddhartha Tripathi¹

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Abstract

Pulsating heat pipes are effective heat transfer devices that can provide passive thermal management solutions for electronics and electric vehicle batteries. In this work, the thermal performance and startup characteristics of a specially designed multiplanar PHP are investigated. Hybrid CuO + Fe₃O₄-water (2 wt. %) nanofluid is used as the working fluid in pulsating heat pipes. The improvement in cooling performance is assessed and compared to that of water. In mobile applications of PHPs like electric vehicle battery thermal management, components are regularly exposed to the vibrations induced by vehicle systems, and hence working characteristics of PHP under vibrations need a detailed investigation. Hence, this work also explores the effect of vibrations (~30 Hz) on the thermal performance of pulsating heat pipe to study its feasibility for electric vehicle battery thermal management application. The findings of this work show that with nanofluids, the startup temperature of pulsating heat pipe reduces marginally, and thermal resistance decreases by a maximum of 13.49%. Results also show that under vibrations, pulsating heat pipe shows significantly low startup temperature and reduced thermal resistance. A maximum

innovation and experiential learning. Dr. Mane, as the coordinator of the 3D Printing Lab, played a pivotal role in this initiative alongside Dr. Niteen Bhirud, Program Lead (Mechanical Engineering, SOE), and Dr. Sunil Ingole, Dean, School of Engineering. Additionally, School of Engineering has signed an MoU with 3DShikshan Educational Consultancy to foster innovation and experiential learning. Dr. Mane, as the coordinator of the 3D Printing Lab, played a pivotal role in this initiative alongside Dr. Niteen Bhirud, Program Lead (Mechanical Engineering, SOE), and Dr. Sunil Ingole, Dean, School of Engineering.



Dr. Sateesha Patil has achieved a remarkable milestone with the development of a design patent for the Inclined Oscillating Water Column. **“Inclined Oscillating Water Column.”** This innovation demonstrates a significant step forward in sustainable energy technologies.





highlighting innovative strategies to address global micronutrient deficiencies and demonstrating his commitment to advancing public health through nutrition science.

Dr Shankar Khade has contributed to the research paper **Vitamin Fortification Techniques and Analyses in Staple Food: Strategic Method to Overcome Micronutrient Deficiencies**, published in *Current Food Science and Technology Reports* on January 6, 2025,



Prof. Khushabu Trivedi has achieved a significant milestone by publishing a research paper titled "From Farm to Fork: Advanced Analysis, Visualization, and Imputation of CO2 Emissions in Food Production" in the IEEE Xplore conference proceedings dated January 15, 2025. She has also attended One Week Faculty Development Program (FDP) on **Next-Gen AI: Innovations in Machine Learning, Deep Learning, and Generative Models**, organized by the Department of Computer Engineering at Marathwada Mitra Mandal's Institute of Technology, Pune, from January 6 to January 11, 2025.





innovative approaches to transforming waste materials into valuable resources, promoting sustainability and environmental conservation.

Prof. Amit Mohan Raman participated in an online ATAL Faculty Development Program (FDP) titled **Augmented Reality and Virtual Reality in Engineering Education** from January 6 to January 11, 2025, which focused on



Mitra Mandal's Institute of Technology, Pune, from January 6 to January 11, 2025.

Dr. Pradip Salve and Prof. Abhishek Dipak Shroff were recognized for their active participation in the One Week Faculty Development Program (FDP) on **Next-Gen AI: Innovations in Machine Learning, Deep Learning, and Generative Models**, "Next-Gen AI: Innovations in Machine Learning, Deep Learning, and Generative Models," organized by the Department of Computer Engineering at Marathwada





Dr. Amol Kasture successfully completed a one-week Faculty Development Program (FDP) titled **Mastering the Fundamentals of Power BI for Data Visualization**, organized by

Gokul Global University in collaboration with the Nucleus of Learning & Development, held from January 16 to January 22, 2025.



School of Architecture



Prof. Seema Paulzagade from SOA attended a online Faculty development program on **Artificial Intelligence (Ai) And Architecture: Crafting The Future Designers and Educators** from the 6th Jan to 10th Jan 2025. The program aimed

to integrate advanced AI technologies into architectural education, equipping future architects with the skills to leverage computational advancements in design, construction, urban planning, and research.





IN ASSOCIATION WITH

Internal Quality Assurance Cell (IQAC) - MMIT

ORGANIZED BY

Department of Civil Engineering
Marathwada Mitra Mandal's Institute of Technology (MMIT)
Pune - 411047

Marathwada Mitra Mandal's Institute of Technology (MMIT), Lohgaon, Pune
NAAC Accredited with Grade "A"

Faculty Development Program (FDP) on
"Academic and Industry Research Opportunities, Research Grants, and Publications"

December 16 to 21, 2024
(Online Mode)

"Techno Social Excellence"

Marathwada Mitra Mandal's Institute of Technology (MMIT), Pune
Approved by AICTE | Recognized by DTE | Affiliated to SPPU Pune
NAAC Accredited with Grade "A"

Certificate of Participation

Narendra Ramesh Kalbhore
Dr D Y Patil School of Architecture
Has participated in a six-day online FDP on
"Academic and Industry Research Opportunities, Research Grants and Publications"
organized by Department of Civil Engineering, Marathwada Mitra Mandal's Institute of Technology, Lohgaon, Pune from 16th to 21st December 2024.
In Association with IP-Adventure LLP and IQAC - MMIT

Adv. P. R. Kaslam IP Adventure LLP | Dr. A. A. Thakare FDP & IQAC Coordinator | Dr. A. P. Khatri HOD, CIVIL | Dr. R. V. Bhorkare Principal, MMIT

Prof. Narendra Kalbhore - The Marathwada Mitra Mandal Institute of Technology, Pune organized a six day online FDP from **16th to 21st December 2024**. The program was intended to focus on the Academic and Industry Research Opportunities, Research Grants and Publications. **Prof. Narendra Kalbhore from SOA** participated in the program gaining insights into for publishing research work in reputed journals.

A One Day Faculty Development Program on **"Patent and Copyright for Architects"** was arranged for the SOA on the 15th January 2025. The workshop was conducted by renowned academician Prof. Vishwajeet Kadlag, who has over ten years of research expertise and numerous patent authoring publications. The FDP was engaging and eye opener for the participant.



Dr. D Y PATIL SCHOOL OF ARCHITECTURE | AJEENKYA THE INNOVATION UNIVERSITY

Dr. D Y Patil School of Architecture Lohgaon, Pune (MH56) (DTE- 6245)
Affiliated to Savitribai Phule Pune University (SPPU) | Approved by Council of Architecture (COA), New Delhi

One Day Faculty Development Program On
Patent and Copyright for Architects
Organised by: Dr D Y Patil School of Architecture Lohgaon, Pune

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Prof. Vishwajeet Ashok Kadlag
Civil Engineering Department
Ajeenkya D Y Patil School of Engineering

He is a distinguished academician with over 10 years of experience in Research. He has published five Patents, including four design patents, and started one start-up on Eco-Crete. He has published over 25+ research publications and written a book on RM & IPR. He also serves as a guide mentoring several postgraduate and graduate students of civil engineering.

Topics For FDP:-

- Copyright
- Patent design & Applications
- Patent Grant
- Patent Process
- Patent drafting
- Geographical Indication

Wednesday, 15th January 2025 | 10:00 am to 3:00 pm | Seminar hall, DYP SOA

INSTITUTIONAL MEMBERSHIP

Prof. Tarek Sadek | Prof. Madhav Patil | Prof. Ashi Joshi | Prof. B Y Gajjar
Chairman, ADIPPU | Vice President, ADIPPU | Design Chair, DYP SOA | Principal, DYP SOA

Dr. Ajaykya D Y Patil | Dr. Sachin Patil | Dr. F B Khedkar | Dr. Mahesh Kumar Jale | Dr. Kanchanpoo Kulkarni
Chairman, ADIPPU | Advisor, IITRAC | Vice President, ADIPPU | Vice-Chancellor, ADIPPU | Director, IITC, Campus

Dr. D Y Patil School of Architecture, Ajeenkya D Y Patil Knowledge City, Chaudhri Bk, Via Lohgaon, Pune-412007
Ph: 020-35037902 | 9511559625 | 6446519008 | 7275510116, Web: www.dypatilschool.ac.in

School of Management



Prof. Shiba Prasad Mohanty, Assistant Professor of SOM, organized a session on Application on Commodity Derivatives for MBA-IV finance students on 16th January, 2025. CA Anupkumar Mundada delivered the session and shared his insights into the derivative market and its importance in the financial ecosystem.



AJEENKYA School of Management **WISDOM** **MCX**

APPLICATION OF COMMODITY DERIVATIVE

CA Anupkumar Mundada
(Chartered Accountant & SEBI SMART Trainer)

Date and Time:
16th January 2025 at 11.30 AM to 1.00 PM

Venue: U.I.C., 6th Floor, Room No: 713

Faculty Coordinator:
Prof. Shiba Prasad Mohanty,
Assistant Professor, SOM

Organized by: Finance Club of SOM



Dr. Sugandh Arora successfully participated in the prestigious International Research Conference, Vishleshan 2K24, organized by the International Institute of Management Studies, Pune, in collaboration with Saint Peter's University, USA. Held on 27th and 28th December 2024, the conference revolved around the theme,

INTERNATIONAL INSTITUTE OF MANAGEMENT STUDIES
with
SAINT PETER'S UNIVERSITY, USA

INTERNATIONAL RESEARCH CONFERENCE VISHLESHAN 2k24

.....CERTIFICATE OF PARTICIPATION

This is to certify that
Dr./Prof./Mr./Ms. Sugandh Arora has successfully participated / presented in International Research Conference VISHLESHAN 2K24 on "Collaborative Sustainability: Building Partnerships for a Better Tomorrow" on 27th & 28th December 2024.

[Signature]
PROF. MANISH R. MUNDADA
FOUNDER PRESIDENT
SAIBALAJI GROUP OF INSTITUTES

AACSB **EFMD GLOBAL**

Address: Sr. No. (1A/1-24), Near Dattawadi, Near Hinjewadi IT Park, Pune, Maharashtra - 411033



Collaborative Sustainability: Building Partnerships for a Better Tomorrow. This global platform provided an excellent opportunity to exchange insights and foster partnerships for sustainable development. Also, she has been honored as an **Editorial Board Member** in recognition of outstanding contributions and achievements in innovative research. This accolade was presented during the **3rd Edition of the International Food Scientist Awards** by Scifax, under the Ministry of Corporate Affairs.

School of Design



New Research on Experimental Typography

Prof. Rupesh Gajbhiye's paper, **Design Ideation, Creativity, and Synthesis Using Experimental Typography**, published in the Karnavati Journal of Multidisciplinary Studies (Vol. 02, No. 02, 2024), explores the fusion of cognitive skills and design innovation. The research emphasizes hands-on experimentation, integrating natural elements into typographic design, and the importance of educator guidance.



Author:
Rupesh Gajbhiye
Associate Professor
Ajeenkya D Y Patil University
rupesh2022@karnavatiuniversity.edu.in

Abstract:
This research delves into how cognitive skills interact with design innovation, focusing on how students use logical thinking and cognitive tasks involving to create design visualization and conceptual sketching in typography. It emphasizes the importance of fundamental typography principles, such as readability and legibility, within an educational framework to enhance students' theoretical and practical understanding of typography. The study explores the fusion of design principles and theories to create novel typographic forms inspired by natural elements like flora and fauna, fostering a deep connection between design, nature, and culture. In its experimental component, the study allows students to choose specific natural forms as inspiration for developing new characters, applying a mix of aesthetic, design principles, and theoretical knowledge. This process enables students to produce novel and meaningful typographic solutions, promoting further exploration and innovation. The research is designed to evaluate how students apply their

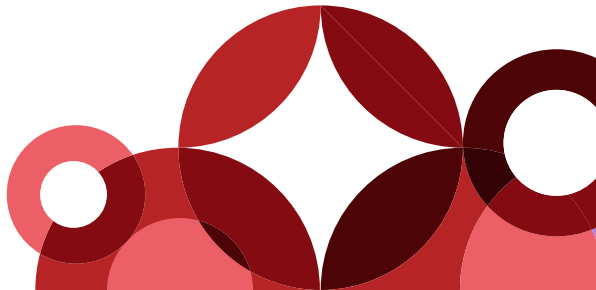
School of Liberal Arts & Law



International Seminar on Strategic Geopolitics and Security Issues

On January 13, 2025, Dr. Sunny Thomas, Dean, School of Liberal Arts, Assistant Prof. Dr. Amit Jadhav, Assistant Prof. Bindiya Naik, Assistant Prof. Kedar Naik, Assistant Prof. Manish Kumar(SOLA), Associate Professor Dr. Rajlakshmi Pushkaraj Wagh(SOL) presented papers at the International Seminar on **Strategic Geopolitics and Security Issues** organized by the School of Liberal Arts and School of Law under different sub themes. The seminar brought together scholars, policymakers, and students to deliberate on crucial topics, including Indo-Pacific security. The event highlighted emerging challenges and strategies in global geopolitics.





Students Corner

Groundbreaking Research at ICORD 10th International Conference

Our students from Visual Communication, including Tanmayee Chandorkar and Pradnya Barad, attended the prestigious ICORD 10th International Conference at IIT Hyderabad from January 8th to 10th, 2025. They presented their research paper, **Enhancing the Caregiving Experience of Caregivers for Dementia and Alzheimer's Patients**, focusing on user-centered design to improve the caregiving journey.



Shravani Kulkarni, Piyush Bhosale, Amna Kausar, and Susanta Das authored Chapter 3, **Addressing Gender Disparities: Enhancing Women's Representation and Equity Across Employment Sectors**, published in the book *Dimensions of Diversity, Equity, Inclusion, and Belonging in Business*, which became visible online on January 16, 2025, via IGI Global.

Chapter 3 Addressing Gender Disparities: Enhancing Women's Representation and Equity Across Employment Sectors

Shravani Kulkarni
Ajeenkya D.Y. Patil University, India

Piyush Bhosale
Ajeenkya D.Y. Patil University, India

Amna Kausar
<https://orcid.org/0009-0000-3940-8845>
Ajeenkya D.Y. Patil University, India

Susanta Das
<https://orcid.org/0000-0002-9314-3988>
Ajeenkya D.Y. Patil University, India

ABSTRACT

It examines persistent gender disparities in various employment sectors, highlighting need for equitable opportunities & representation. Despite societal advancements, women remain underrepresented in leadership roles & many industries, while overrepresented in undervalued & low-paying jobs. It explores how gender biases, stereotypes, & unsupportive workplace cultures limit women's career progression. These challenges are compounded by a lack of female role models & supportive networks, leading to limited upward mobility & continued marginalization in many sectors. It emphasizes collective impact of these disparities, where women are sys-

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Hyperloop

On January 12, 2025, students attended the India Science Festival at Fergusson College, where they explored Hyperloop technology through live demonstrations of a Hyperloop pod by MIT-WPU, gaining hands-on exposure to advanced engineering concepts and real-world challenges.



on January 14, 2025, an online session by Aniruddha Atigre of Quintrans Hyperloop introduced students to COMSOL programming, emphasizing real-time problem-solving in software applications. These activities collectively enhanced the students' understanding of Hyperloop systems, encouraged research, and provided practical learning opportunities.



Amna Kausar, Afrah Kausar, Shravani Kulkarni, Piyush Bhosale, and Susanta Das authored Chapter 4, **Gender Bias in AI: Creating Discriminatory Systems**, published in the book *Dimensions of Diversity, Equity, Inclusion, and Belonging in Business*, which became available online on January 18, 2025.

Chapter 4 Gender Bias in AI: Creating Discriminatory Systems

Amna Kausar
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Ajeenkya D.Y. Patil University, India

Afrah Kausar
Ajeenkya D.Y. Patil University, India

Shravani Kulkarni
Ajeenkya D.Y. Patil University, India

Piyush Bhosale
Ajeenkya D.Y. Patil University, India

Susanta Das
<https://orcid.org/0000-0002-9314-3988>
Ajeenkya D.Y. Patil University, India

ABSTRACT

Through an examination of various societal factors influencing stereotypes, the chapter demonstrates how biases extend towards all gender identities. We acknowledge intersectionality by highlighting the connection between gender discrimination and other factors such as race, colour, and socioeconomic status. Solutions to address this bias include improving diversity in AI development teams, increasing awareness, incorporating certain frameworks and policies. As such, addressing gender bias in AI needs a multifaceted approach, integrating ethical, societal, and technical considerations. By promoting diversity and a range of perspectives, developers can more effectively recognise and resolve biases present in AI systems. In order to create more reliable and morally sound AI systems, we also examine the significance

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SPORTS DAY AAGHAZ 2025 AT SOA

On January 22, 2025, the School of Architecture held the AAGHAZ Sports Day celebration. The outdoor games like football and tug of war as well as indoor games like chess and carom were arranged. The event was organized by Prof. Narendra Kalbhor and Prof. PoorvaSawai, all students and faculty participated sportingly.



FRESHERS DAY CELEBRATION

The School of Architecture welcomed its first year SPPU batch by organizing a Fresher's day celebration on the 24th of Jan 2025. The students dressed in "Retro" inspired attire. The event concluded with a dinner and announcement of Mr. and Miss Fresher's. The events was arranged by Prof. Sanjita Maindargikar, Prof. Sheetal Tiwari and Prof. Shruti Ingole.



Exploring Textiles: CMF Team's Insightful Visit to MG Market, Pune

On January 10, 2025, the CMF (Color, Material, Finish) team visited MG Market in Camp, Pune, for an in-depth fabric study, guided by visiting faculty Ms. Anushka Patil. The hands-on experience provided valuable insights into fabric trends, pricing, and quality, enhancing the team's understanding of material sourcing and market dynamics. Special thanks to Ms. Patil for her mentorship throughout the day.



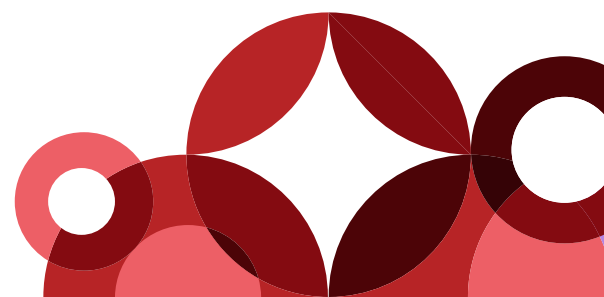
B.Des Students Visit Laal Mahal and Raja Dinkar Kelkar Museum

B.Des 4th-semester students from UI/UX, PD, and VC visited Laal Mahal and Raja Dinkar Kelkar Museum on January 10, 2025, as part of their Minor 2 - Indian Design Sensibilities course. The trip allowed students to explore India's rich cultural and historical design heritage, from the royal legacy of Laal Mahal to the artistic treasures of the Kelkar Museum.



B.Des Students Visit Kone Cranes Factory for Insights into Crane Design

On January 9, 2025, 2nd and 3rd-year TD and PD students visited the Kone Cranes factory in Jejuri, Pune, accompanied by faculty members Chaitanya Sir and Pranav Sir. The visit provided valuable insights into the complex yet simple design of cranes and showcased the futuristic innovations in overhead crane technology.



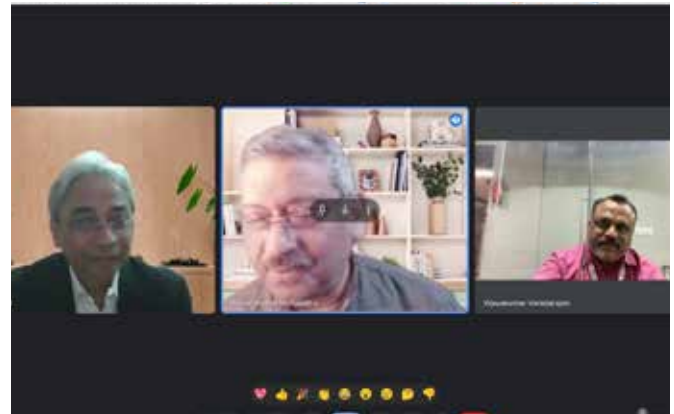
International Collaborations

The International Division had a remarkable start to the year, engaging in multiple high-profile meetings to explore and strengthen global collaborations. Here's a summary of key developments:

International Collaboration Meetings

1. Strengthening Ties with Global Institutions:

- **6th January 2025:** Meeting with Dr. Ranjan (IOCL) and Dr. Sukrit (NSDL) to discuss collaborative opportunities.
- **8th January 2025:** Interaction with Mr. Lavina, CEO of UNILINQ, to explore potential partnerships.
- **15th January 2025:** Collaboration discussions with UGC Member Vice Chancellors of all Indian universities, accompanied by Prof Juhi (Registrar Office, ADYPU).



Partnering with Australian and UK Institutions

- **14th January 2025:** Meeting with Ms. Mahnaz Khan, Director, Australian Trade Commission, attended by Dr. Vijayakumar (Dean International), Dr. Ambuj (Dean SOM PG), and Dr. Makarand (Head of NUOVOS).



- **17th January 2025:** Collaboration discussions with the Director and representatives from the University of Reading, UK, with participation from Dr. Vijayakumar, Dr. Ambuj, Dr. Makarand, and Prof Dushyant (Deputy Dean SFM).



Strengthening Bonds with US and Malaysian Institutions

17th January 2025:

- Engagement with Mr. Alex, Director International, St. John's University, USA, attended by Dr. Vijayakumar and Dr. Rakesh Kumar Jain (Vice Chancellor, ADYPU).



- A parallel meeting with Mr. Alex alongside Dr. Vijayakumar, Dr. Sunny (Dean SOLA), and Prof Bindya (SOLA).

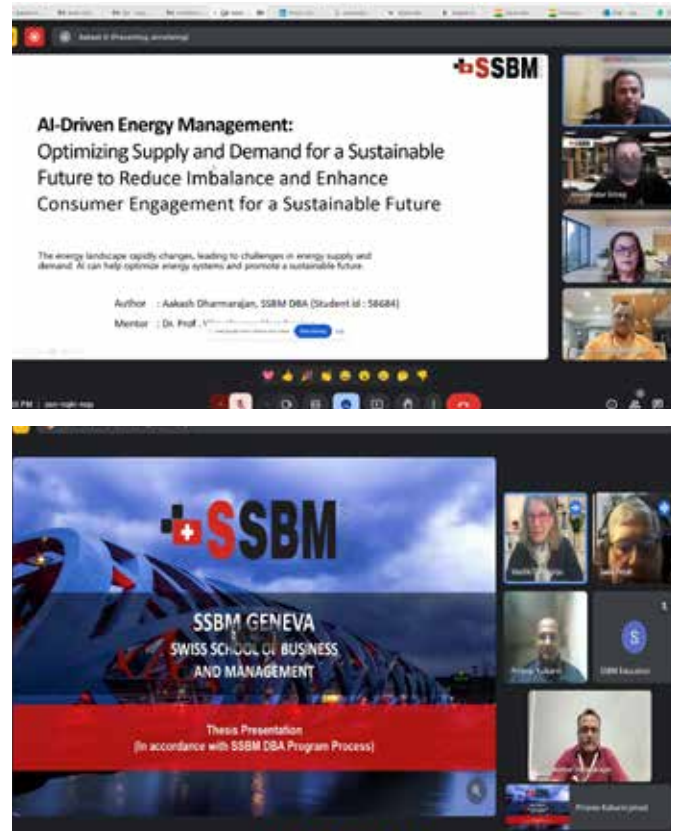


- **21st January 2025:** Discussions with Dr. Thangadurai, Director of the Malaysian University of Science and Technology, accompanied by Prof Sukhvinder (Deputy Dean Research, ADYPU).



Advancements with Swiss School of Business Management (SSBM)

- 20th January 2025: International defence conducted with Dr. Aakash (SSBM) under the supervision of Dr. Vijayakumar.
- 22nd January 2025: Another successful international defence with Dr. Pranav (SSBM) under the supervision of Dr. Vijayakumar.



School of Design Shines at Bharat Mobility Global Expo 2025

The School of Design had an incredible experience at the Bharat Mobility Global Expo 2025, held from January 17th to 22nd. Our students showcased innovative design concepts alongside over 1500 exhibitors from across the globe. The event not only provided valuable exposure to cutting-edge mobility designs but also helped foster strong connections with industry professionals, opening doors for future collaborations and opportunities.



Career Pathway & Placements

Higher Education and Career Opportunities Abroad

The School of Architecture organized a Seminar for Higher Education and Career opportunities abroad on the 20th January 2025 for the 4th and Final year students. The aim of the seminar was to provide valuable insights into studying abroad, including scholarship options, application procedures, and career prospects after graduation. The seminar was interactive where students learnt of the best universities and programs around the world, with detailed guidance on what would make them stand out in terms of education,

research, and global recognition. The program was led by Prof. Shital Golhar under the guidance of Prof. R.T. Golgire.



Career Opportunities Session

An insightful session was organized by ByzWiz Infratech Pvt. Ltd. at the School of Design (SOD).

The session featured prominent industry leaders:

Mr. Pradeep Bahuguna - Co-founder, ByzWiz Infratech Pvt. Ltd.

Mr. Arvinder Sachdev - Founder & CEO, ByzWiz

They shared their expertise on career opportunities, building businesses on their platform in the infrastructure and technology sector, and provided

valuable insights into navigating this dynamic industry.



ByzWiz Placement Opportunity

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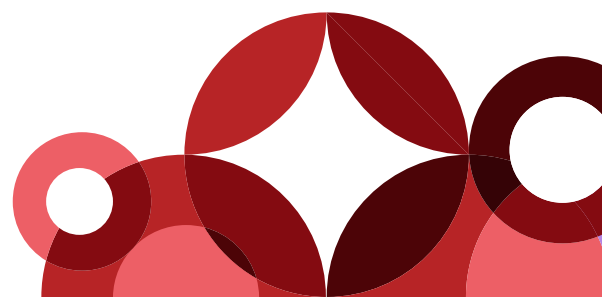
Cultural Chronicles

Lohri Celebration

The House of Arts coordinated by Dr Samina F. Waglawala from the School of Engineering at Ajeenkya DY Patil University organized a vibrant Lohri celebration on January 15, 2025 bringing together students and faculty to honor the spirit of harvest and prosperity. This celebration fostered community spirit, joy, and cultural appreciation, making it a memorable occasion for all attendees.



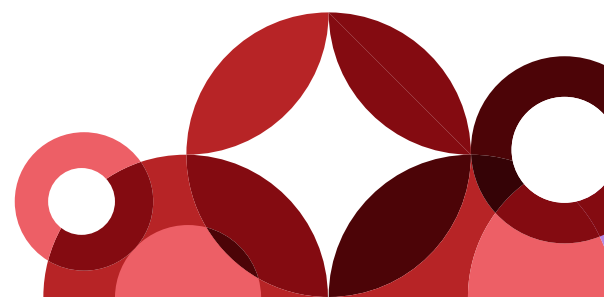
Kite craft fest was arranged by the School of Architecture on the occasion of **Maker Sankranti, 14th January 2025**. Students and faculty celebrated the day by making kites and dressing up in traditional attire. The faculties shared the traditional Til and gud with each other. This initiative was taken up the cultural committee members by Prof. Sanjita Maindargikar, Prof. Sheetal Tiwari and Prof. Shruti Ingole.



Awards & Accolades



Prof. Amit Shirke from School of Architecture qualified the 'Indian Green Building Council Accredited Professional Examination' (IGBC AP) offered by IGBC is a credential for professionals to participate in green building projects. The examination is designed to test the knowledge of a candidate on green building design and construction. The exam was conducted on the 21st Dec 2024.



Media: Design & Photography Credits



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Art Director



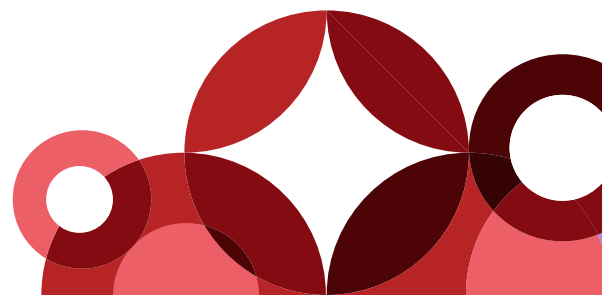
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