

VISHWAKARMA UNIVERSITY

SDG 9 REPORT 2023



**VISHWAKARMA
UNIVERSITY**
Maximising Human Potential

University Grants Commission (UGC) Approved State Private University



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Maximising Human Potential

About This Report

At Vishwakarma University (VU), our steadfast commitment to sustainable development is profoundly aligned with the United Nations' 2030 Agenda for Sustainable Development. These global goals delineate an aspirational vision for a sustainable future, one that VU has deeply integrated into its institutional framework and curriculum.

Our foundational principle, Unleashing Human Potential, reflects our dedication to cultivating an environment conducive to the holistic development of our students, empowering them with the resilience and confidence required to navigate contemporary challenges.

As part of our sustainability mission, VU has reimagined itself as an Eco-campus, exemplifying innovative and sustainable practices. This report details our continual efforts to minimize our carbon footprint and highlights the impactful partnerships underpinning these achievements. For instance, our Certificate Programme in Sustainability Management, developed collaboratively with Hof University of Applied Sciences, Germany, equips students with advanced competencies in business management and contemporary sustainable practices. Additionally, through a strategic partnership with the Wilo Foundation, we have established the Water Quality Centre of Excellence, aimed at advancing water treatment, purification, and public awareness of clean drinking water.

VU's commitment to sustainability extends beyond environmental stewardship. We have launched a dedicated Center for Sustainability, NEXUS, that undertakes activities aligned with the Sustainable Development Goals (SDGs). Our mission is to cultivate informed, ethical, and skilled individuals who uphold principles of equity, inclusivity, and excellence. By engaging students in practical applications of their knowledge, we bridge the divide between theoretical frameworks and real-world challenges.

Our participatory development model actively involves students and industry stakeholders, ensuring that our academic philosophy equips learners with the competencies essential for addressing the complexities of the modern business landscape. VU's extensive network, encompassing over 45 collaborations with prominent industries and educational institutions—including the Maharashtra State Faculty Development Academy, Queen Mary Technical Institute, Buldhana Urban Cooperative Credit Society, and TATA Technical Limited—facilitates industry projects, live projects, internships, and placements, thus enhancing practical exposure and career prospects for our students.

Furthermore, VU is committed to fostering a well-rounded education and community engagement through initiatives such as the VU-Centre for Communication Development, the Sahyadri Communication Project, and the VU Legal Aid Clinic, all integral components of our VU-iPAR Model. This model emphasizes community involvement, and we encourage student leadership through programs such as the National Service Scheme (NSS) and the Student Council. In alignment with the National Education Policy (NEP) 2020, we offer NEP 2020 courses and have established the VUWCOE – VU Wellness Center of Excellence, supporting holistic development in both academic and wellness dimensions.

In summary, Vishwakarma University's commitment to sustainable development and the SDGs is firmly embedded within our institutional ethos. Through collaborative engagement with diverse stakeholders, we consistently integrate sustainability into our operations, fostering a culture of innovation, research, and learning. VU remains committed to preparing future leaders equipped to drive impactful change, contributing meaningfully to the global vision of sustainable development.

Prof. (Dr) Siddharth Jabade
Vice-Chancellor
Vishwakarma University, Pune, India

VU's Participation in the THE Impact Rankings 2023

Vishwakarma University (VU) also participated last year in Times Higher Education (THE) Impact Rankings 2023, which looks at global universities' commitment and performance in furthering the Sustainable Development Goals (SDGs).

VU took part in the 4 SDGs listed below plus the mandatory SDG 17 and the results were as follows:

Overall Ranking 1001+





9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



**Build resilient infrastructure,
promote inclusive &
sustainable industrialization
and foster innovation**

Industry, Innovation and Infrastructure

Vishwakarma University (VU) is dedicated to fostering positive change through research and innovation that directly addresses societal needs. Our approach to education, research, and outreach is closely aligned with the evolving demands of both industry and society. VU's primary objective in collaborating with industry is to develop solutions that tackle real-world challenges while upholding principles of social and environmental responsibility, ensuring a lasting and meaningful impact.

The industries we engage with encompass a wide range of sectors, including large enterprises, small and medium-sized enterprises (SMEs), social enterprises, start-ups, and independent professionals. At VU, our transdisciplinary Centres of Excellence act as dynamic hubs that drive impactful collaborations with industry partners. These centres focus on fostering innovation from the initial concept to delivering real-world value across the entire supply chain.

Through a curriculum enriched with practical learning, internships, placements, research, and innovation initiatives, VU integrates these unique elements into its teaching-learning ecosystem to prepare students for real-world challenges. The initiatives for industry connect include:

1. Industry on Campus
2. Centres of Excellence in collaboration with industries
3. Industry Collaborations for sponsored and contract research
4. MoUs with Industry
5. Memberships of Professional Bodies
6. Industry Advisory Board
7. Esteemed Recruiters
8. Events and Sponsorships
9. Representation of Industry Professionals

Industry-University Interaction (Placement and Career Progression Office)

The Career Support Office at Vishwakarma University plays a pivotal role in connecting final-year students with a wide range of employment opportunities, internships, and paid projects through its comprehensive Campus Placement program. With a robust network of over 700 active recruiters and strong industry partnerships, the office ensures that students have access to diverse career options.

The University boasts over 75 industry collaborations, enhancing students' exposure to real-world industry practices and trends. We also maintain over 25 global partnerships, providing students with international opportunities and cross-cultural experiences that enrich their professional growth.

Additionally, the Career Support and Placement Cell at VU leverages an expansive network of over 1,500 industry connections, offering students ample opportunities for internships and hands-on projects, exceeding 1,000 in total. Supported by more than 700 esteemed campus recruiters and a number of global partnerships, the university is committed to helping students build successful career paths.

Our Placement and Career Progression Assistance Programme (PCPAP) is designed to thoroughly prepare students for the professional world, contributing to an outstanding track record of job offers and successful placements.

<https://www.vupune.ac.in/placement>

Key thrust areas are as follows;

1. To seek inputs for curriculum improvement and alignment.
2. To broad base connections with industry professionals across sectors.
3. To give a wider industry exposure to students and faculty members.
4. To assist the departments in inviting industry experts and organizing events.

5. To create opportunities for faculty members and students to work on industry projects. To identify employment, internship, and mentorship opportunities for students.
6. To collaborate for innovative projects, entrepreneurship, research, and development. To forge partnerships for value-added courses and hands-on training for students.

Major activities for career support:

1. Extended career support
2. Career progression pathways
3. Global exposure through academic exchange of faculties and students
4. Promotion of innovation
5. Entrepreneurship Development
6. Proactive Job search training
7. Support for further studies and govt. Job entrance examinations

The Placement and Career Progression Office designs intensive career readiness programmes for every student to make them industry ready and enhance their employment potential. The Placement and Career Progression Office enhances the following areas of student development for better industry relevance:



Major Initiatives for Industry-University Linkages are as follows:

1. Industry on Campus and Centres of Excellence
2. Representation of industry professionals on various committees
3. Industry Visits, Live Projects, Freelancing, and Shadowing
4. Campus Recruitment Programme and Industry Internships
5. Workshops, Talks, Expert Interactions, and Jury
6. Memberships of Professional Bodies
7. Events and Sponsorships
8. Industry Advisory Boards
9. Incubation Facilities

Industry Interaction Activities

1. Blended Placement and Career progression assistance training programme for the final year students.
2. Career Orientation Sessions for the First Year Students
3. Summer Internship Briefing for the pre-final year students
4. Industry on Campus activities for students
5. Activities by the Centres of Excellences for students and faculty
6. Recruitment drives for the summer internship and semester-long internships
7. Live Projects opportunities for the students round the year
8. Industry Visits, Hands-on Training, and Workshops by practitioners
9. Recruitment drives for placement and jobs

10. Industry connects and industry outreach work
11. Meetings of the Industry Advisory Boards
12. Participation of Industry Professionals in Board of Studies meetings
13. Training to students on soft skills and technical skills by industry experts
14. Participation in several industry events by faculty and students

<https://www.vupune.ac.in/live-projects/institution-industry-interaction-cell>

Connectomics - Major event for industry connect

Overview

Connectomics 2023, organised in collaboration with Binghamton University, was held under the theme "Design Thinking and Innovation." The event brought together leading experts and industry delegates to explore how connectomics is transforming brain research and its applications. The symposium aimed to foster discussions on the critical role of design thinking and innovation in shaping the future of the field, while also engaging students and parents through an educational experience.

Details of the Event

The event featured two major segments: the **Connectomics Symposium** and the **Connectomics Edu-Fest**.

Connectomics Symposium provided a platform for industry leaders and researchers to share their insights on leveraging design thinking and innovation in brain research. Experts presented their experiences and innovative approaches to tackling challenges in the field, highlighting the evolving applications of connectomics in healthcare and other industries.

Connectomics Edu-Fest was designed to be an interactive and educational experience for students and parents. It offered an engaging introduction to the latest advancements in brain research and demonstrated how design thinking is applied to drive innovation in this emerging discipline. Participants were able to learn about the impact of connectomics on various real-world applications through fun, hands-on activities and educational sessions.

Outcome

Connectomics 2023 successfully provided a platform for cross-disciplinary collaboration and knowledge exchange. Industry experts, researchers, students, and parents left the event with a deeper understanding of the impact of design thinking on brain research. The symposium helped bridge the gap between academic research and industry applications, while the Edu-Fest inspired the next generation of thinkers to explore connectomics and innovation in their future endeavors. The event set the stage for continued growth and exploration in the field of connectomics.

Link for symposium website: -

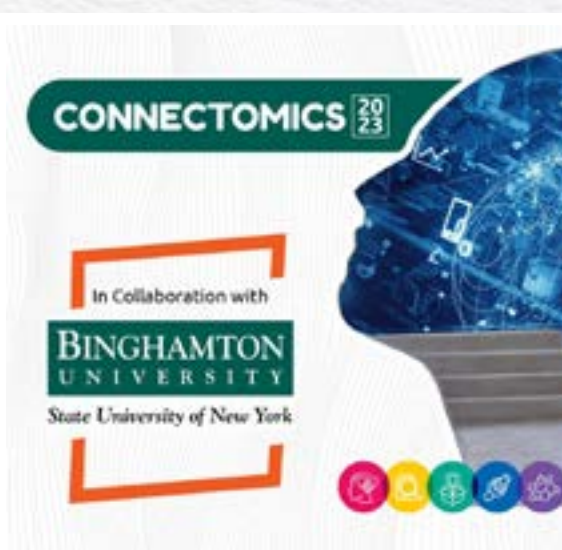
<https://www.vupune.ac.in/live-projects/connectomics-2023>





Website link of symposium:

https://www.linkedin.com/posts/vishwakarmauniversity_vishwakarmauniversity-pune-connectomics-activity-7035944523113410560-faPa/?utm_source=share&utm_medium=member_desktop



Photos for the event: https://drive.google.com/drive/folders/1blsCl7qq3QcMvoZwqzj_bAR3nteKCUPK?usp=sharing



2. Industry collaboration with TATA AutoComp Systems

Overview

The collaboration between Tata AutoComp Systems and the university marks a significant milestone in advancing Electric Vehicle (EV) technology and skills development. With the automotive industry undergoing rapid transformations toward electrification, this partnership aims to equip employees of Tata AutoComp with cutting-edge technical knowledge and hands-on expertise. This two-year programme (4 semesters) is designed to upskill participants, ensuring they are industry-ready to meet the growing demands of EV technology.

The programme is open to Tata AutoComp employees and focuses on a combination of theoretical learning and practical applications, delivered primarily in an offline mode. With a batch size of 25 participants, the course ensures a personalized learning environment to foster in-depth understanding.

Curriculum Highlights

The programme covers a broad spectrum of essential topics, including:

- **Core Technical Areas:** Strength of Materials, Basics of Electrical Engineering, Fundamentals of Computer Engineering, Power Electronics, and Thermal Management of EVs.
- **EV-Specific Content:** Selection and Design of Electric Motors, Battery Pack Design, Embedded Systems for EV, Energy Storage, and Safety Features in EVs.
- **Industrial Best Practices:** Quality Assurance, Trouble Shooting, Industrial Safety, TQM, and 5S Fundamentals.
- **Skill Development:** Soft skills training, case studies, and problem-solving tools are integrated to enhance job readiness and professional growth.

Probable Projects

- Participants will work on real-world EV-related projects, including:
- Calculating battery capacity and selection.
- Designing and implementing battery cooling systems.
- Developing charging systems and testing validation for EVs.
- EV diagnostics and control system design.
- Assembly/disassembly of EV components and ensuring safety compliance.
- These projects will help bridge the gap between theoretical learning and practical industry requirements.

Programme Features

Skill Enhancement: The programme focuses on up-skilling participants to the necessary technical levels for working with EV systems.

Balanced Learning: A right mix of theoretical knowledge and hands-on experiments ensures participants are well-prepared for real-world challenges.

Expert Involvement: The curriculum is crafted with input from industry experts to ensure relevance and practical utility.

Comprehensive Coverage: The programme addresses crucial aspects of EV technology, including vehicle dynamics, battery management, electric systems, and thermal management.

This collaboration promises to empower Tata AutoComp employees with future-ready skills in Electric Vehicle technology, ensuring they remain at the forefront of the automotive industry's electrification journey.

Link to the Brochure of the Diploma Course:

https://drive.google.com/file/d/101ufA_VjhL6rdHDq5QyVN7XST3JN0FOU/view?usp=sharing

Website link of visit to Tata AutoComp Systems Plant:

https://www.linkedin.com/posts/activity-7164461625134059520-slUS?utm_source=share&utm_medium=member_desktop



Activities throughout the year

Vishwakarma University focused on a range of activities throughout the year aimed at strengthening industry outreach and enhancing industry-oriented engagement. The activities have been listed down below:

1. Industrial Visit of Peppermint Clothing & purple creations pvt ltd

Objective:

On November 14, 2023, the Faculty of Commerce and Management organized an industrial visit to Peppermint Clothing Private Limited, MIDC Baramati, for its BBA IB Semester I students.

A subsequent industrial visit to Peppermint Clothing Private Limited and Purple Creations Private Limited, MIDC Baramati, was organized for BBA Semester I students on November 21, 2022. This visit provided participants with valuable insights into how theoretical concepts are applied in real-life business settings.

Outcome:

The industrial visits resulted in significant learning outcomes for BBA Semester I students, including enhanced understanding of business operations, practical applications of theoretical concepts, and industry dynamics. Students developed critical thinking, observational, and communication skills, while gaining exposure to textile manufacturing, supply chain management, and quality control. The visits effectively bridged the gap between academia and industry, enriching students' knowledge and preparing them for future career.

Link: -

https://www.linkedin.com/posts/vishwakarmauniversity_vishwakarmauniversity-commerce-management-activity-7016276545744875520-Keh2?utm_source=share&utm_medium=member_ios



Link: -

https://www.linkedin.com/posts/vishwakarmauniversity_vishwakarmauniversity-industrialvisit-peppermint-activity-7017088577301884928-nfau?utm_source=share&utm_medium=member_ios



2. Industrial visit to Jawaharlal Nehru Port

Objective:

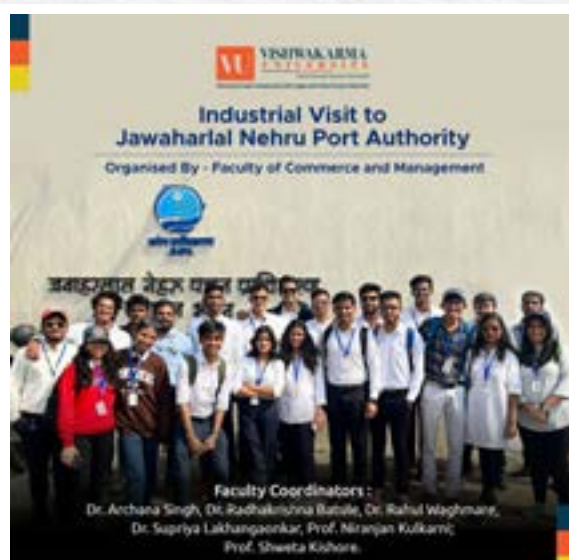
The Faculty of Commerce and Management organized an industrial visit to Jawaharlal Nehru Port Authority on January 23, 2023, offering BBA and BBA IB students a glimpse into the world of international trade and commerce. Under the expert guidance of faculty coordinators Dr. Archana Singh, Dr. Radhakrishna Batule, Dr. Rahul Waghmare, Dr. Supriya Lakhangaonkar, Prof. Niranjana Kulkarni, and Prof. Shweta Kishore, students gained valuable practical knowledge and insights."

Outcome:

The industrial visit to Jawaharlal Nehru Port Authority provided BBA and BBA IB students with a comprehensive understanding of international trade and commerce, practical insights into port management, and enhanced analytical and problem-solving skills. Students developed critical thinking, teamwork, and communication skills, while gaining exposure to career opportunities and industry networking, ultimately improving their career readiness and employability.

Link: -

https://www.linkedin.com/posts/vishwakarmauniversity_vishwakarmauniversity-pune-bbastudents-activity-7030169927521034240-qiww?utm_source=share&utm_medium=member_android



3. Industrial Visit to Bombay Stock Exchange (BSE) and RBI Monetary Museum

Objective:

The Faculty of Commerce & Management at Vishwakarma University organized an industrial visit for BBA and MBA students to the Bombay Stock Exchange (BSE) and the Monetary Museum of the Reserve Bank of India (RBI) on 18th April 2023. The objective of the visit was to provide students with a practical understanding of the financial markets, stock trading, and India's monetary history, while also exposing them to real-world applications of their academic studies in finance and economics.

Outcome:

The visit was an enriching and insightful experience for the students. At the BSE, they attended an informative session led by Dr. V. Aditya Srinivas, Chief Economist and Chief Operating Officer, where he discussed key aspects of stock market operations, trading mechanisms, and international business cooperation. This interactive session deepened the students' knowledge of financial markets and investment strategies. The students also visited the Monetary Museum of RBI, where they explored the evolution of currency and the role of the central bank in managing the country's monetary policy. The visit provided a comprehensive learning experience, bridging the gap between theory and practical knowledge in finance, which will significantly benefit their academic and professional growth.

Link: -

https://www.linkedin.com/posts/vishwakarmauniversity_vishwakarmauniversity-studentexperience-industrialvisit-activity-7085828281354076160-GLRW/?utm_source=share&utm_medium=member_desktop



4. Industrial Visit to Excelsis Energy Pvt Ltd

Objective:

On 24th April 2023, the Faculty of Commerce and Management organized an industrial visit to Excelsis Energy Pvt Ltd in Chakan, Pune, for the BBA and BBA IB students. The objective of this visit was to provide students with hands-on exposure to production and operation management, along with an understanding of plant safety guidelines. Additionally, the visit aimed to give students insights into the intricacies of starting and managing a new business unit.

Outcome:

The visit offered students a valuable learning opportunity, where they gained practical knowledge of production processes and operational strategies employed in the energy sector. Students were introduced to safety protocols necessary for plant operations, helping them understand the importance of workplace safety. Moreover, the interaction with company officials was highly beneficial, as the students got a chance to have their queries addressed. The company representatives shared their expertise and real-world experiences, enriching the students' understanding of setting up and managing business operations. This exposure to the workings of an energy production facility significantly complemented their classroom learning, broadening their perspective on entrepreneurship and business management.

Link: -

https://www.linkedin.com/posts/vishwakarmauniversity_industrial-visit-to-excelsis-energy-pvt-ltd-activity-7056198894124171268-lStf/?utm_source=share&utm_medium=member_desktop



5. Industrial visit to the Oxycool Shelke Group Water Plant

Objective:

The Department of Commerce and Management organized an industrial visit to the Oxycool Water Plant, Shelke Group, on 11th October 2023. The primary objective of this visit was to introduce second-year students to the essential concepts of operations and supply chain management. The visit aimed to provide students with a practical understanding of the various stages involved in material processing and production, along with the operational challenges encountered in managing resources and human capital..

Outcome:

The visit proved to be highly educational, as students gained valuable insights into the processes involved in converting raw materials into the final product. They learned about the different aspects of operational procedures, including the technology used for water purification and bottling. In addition to the technical side, students also observed how labour is managed within the plant, gaining a clearer understanding of human resource management practices like salary calculation and task allocation. Overall, the visit enhanced their theoretical knowledge by exposing them to real-world applications, contributing to their understanding of the supply chain and operations within a manufacturing setup.

Link: -

<https://www.facebook.com/photo/?fbid=718265780356352&set=pcb.718265817023015>



MoUs Industry, Government or any other Organisations

The Memorandums of Understanding (MoUs) serve as vital instruments for enhancing and solidifying the collaboration between academia and industry. These agreements are established with esteemed entities that encompass a diverse spectrum, including large enterprises, MSMEs (Micro, Small, and Medium Enterprises), Professional Bodies, startups, and Social Organizations, all of which operate at various scales, be it regional, national, or international. Each of these partnerships is meticulously structured with clearly defined scopes, well-defined objectives, and dedicated teams engaged in fostering the collaborative efforts.

The scope of work is mutually decided and consists of aspects like follows:

- Researching emerging issues in the industry
- Providing training to students, teachers, and industry professionals
- Facilitating projects and internships by students in the industry
- Supporting innovations, new projects, and entrepreneurship
- Promoting projects for product development or process developments
- Strengthening efforts to enhance employability of students

The MoUs are signed with and active engagement is going on with the following organizations:

1. Organization - Buldhana Urban Cooperative Credit Society

Nature of Linkage/Collaboration - Industry Participation in Curriculum Design and Delivery – Micro-Finance

Brief about organization - Buldana Urban was established in 1986, with 456 branches in 4 states of India as of today. With an aim to bring industrial perspective in our curriculum and to enable industry participation in curriculum design VU collaborate with Buldana Urban.

2. Organization - Tata Technologies Ltd.

Nature of Linkage/Collaboration - Setting up competency centre

Brief about organization - Tata Technologies Limited is a company in the Tata Group that provides services in engineering and design, product lifecycle management, manufacturing, product development, and IT service management to automotive and aerospace original equipment manufacturers and their suppliers.

3. Organization - Techniche Engineering P Ltd

Nature of Linkage/Collaboration - To develop transdisciplinary Competency Centres

Brief about organization - Techniche Engg. Pvt. Ltd. have know-how in the domain of risk & safety studies and training for various industries.

4. Organization - Inflexion Analytix P Ltd

Nature of Linkage/Collaboration - Centre for Artificial Intelligence & Advanced Analytics (CAIA)

Brief about organization - Inflexion Analytics was founded to help ambitious companies compete with larger competitors by providing access to the same high quality data analytics services at a market leading price.

5. Organization - Indian Society for Training & Development

Nature of Linkage/Collaboration - Conducting joint research on emerging issues in training and development

Brief about organization - Indian Society for training & development involved in the area of training

and development of human resource from government, public and private sector organizations & enterprises, educational and training institutes and professional bodies.

6. Organization - Queen Mary's Technical Institute

Nature of Linkage/Collaboration - To support differently abled soldiers and their dependents.

Brief about organization - Queen Mary's Technical Institute, earlier known as Queen Mary's Technical School for Indian Disabled Soldiers, was founded by Lady Marie Willingdon

7. Organization - INFLIBNET Centre

Nature of Linkage/Collaboration - To promote open access to scholarly content generated in universities

Brief about organization - INFLIBNET Centre, an Inter-university Centre of the University Grants Commission, as its mandate, promotes open access to scholarly content generated in universities.

8. Organization - Seiler Garepa India Pvt. Ltd

Nature of Linkage/Collaboration - Conducting research on emerging issues in the industry

Brief about organization - Seiler Garepa India Pvt. Ltd. is established with the mission of Make in India. It's a joint venture between Garepa Engineers and M/s Seiler Vakuumtechnik GMBH.

9. Organization - IES India Ltd,

Nature of Linkage/Collaboration - Authorize Training Partner

Brief about organization - Integrated Environmental Solutions Ltd is a software and consultancy company that specializes in building performance analysis. IES create software tools for designing and operating energy efficient building

10. Organization - Dr. L. Subramaniam Foundation

Nature of Linkage/Collaboration - To provide learning curriculum as per UGC guidelines relating to music courses

Brief about organization - Subramanyam foundation is engaged in music education

11. Organization - Confederation of Indian Industry, Young Indians

Nature of Linkage/Collaboration - Yuva vision to influence inspire and motivate millions of students across the country,

Brief about organization - Young Indians (Yi) is an initiative and integral part of the Cii formed with an objective of creating a platform for Young Indian's to realize the dream of a developed nation

12. Organization - Wilo Mather and Platt Pumps

Nature of Linkage/Collaboration - To develop Vertical Sewage Treatment Plant

Brief about organization - Wilo SE is a European manufacturer of pumps and pump systems for the building technology, water and industrial sectors with headquarters in Dortmund, Germany.

13. Organization - Ogee Studio Pvt. Ltd.

Nature of Linkage/Collaboration - Develop courses on user experience and user interface design

Brief about organization - Ogee Studio specializes in the design and development of compelling, modern, rich user experiences (UX & UI) and interactive visualizations for complex information systems in the B2B space.

14. Organization - Industrial Metal Powders India P Ltd.

Nature of Linkage/Collaboration - Conducting research on emerging issues in the industry

Brief about organization - Industrial Metals Powders (India) Pvt. Ltd is in the business of supply of electrolytic iron powder and other iron components to various industrial, nutritional, cosmetic and other applications.

15. Organization - Mahesh Industries Group (MIG)

Nature of Linkage/Collaboration - Interface with micro, small and medium Enterprises

Brief about organization - It is not for profit organisation, committed to promote and encourage new age entrepreneurs and be a networking platform for fellow Maheshwari Industrialist. Collaboration provides students an interface with micro, small and medium enterprises

16. Organization - TGC Technologies Pvt. Ltd.

Nature of Linkage/Collaboration - Capacity building and projects in gamification

Brief about organization - VU and TGC decided to work together with a vision of Conducting research on emerging issues in the industry related to gamification and allied disciplines, by engaging a cross-functional specialized group of teachers and students on the gamification projects.

17. Organization - Jnana Prabodhini's Institute of Psychology (JPIP)

Nature of Linkage/Collaboration - Psychometric assessment and counselling

Brief about organization - Jnana Prabodhini's Institute of Psychology (JPIP) is an offspring of Jnana Prabodhini - the mother Institute and a psychology wing of Jnana Prabodhini Sanshodhan Sanstha (JPSS) and it is affiliated to the University of Pune as a research centre.

18. Organization - Unity Technologies Ltd

Nature of Linkage/Collaboration - Unity academic training partner

Brief about organization - UTECH has developed a game creation system and rendering engine known as unity products (as defined below) and grants to certain individuals and organizations nonexclusive licenses to use the Unity Products for the development of 2D, 3D and Virtual Reality / Augmented Reality / Mixed Reality content.

19. Organization - Riskpro management consulting p ltd

Nature of Linkage/Collaboration - Conducting research on emerging issues in the industry

Brief about organization - Riskpro Management Consulting Pvt. Limited is one of the leading management consultancy firms in the fields of forensic accounting, due diligence, digital forensics and verification services. market intelligence for banking, insurance and corporate sector companies with use of advanced information technology and investigative tools.

20. Organization - Accurate Gauging

Nature of Linkage/Collaboration - Oxygen generator system design and develop

Brief about organization - Accurate is a pioneer in the field of metrology in India that believes in partnering quality metrology solutions which are delivered to various industry segments such as automobile, engineering, aerospace, railways, energy, oil and gas, medical engineering, government sector, and technical education.

21. Organization - Jardins Consultants

Nature of Linkage/Collaboration - Development and delivery of educational programmes

Brief about organization - Dealing with senior level negotiations and connections with individuals and companies to facilitate commercial relationships with companies and other organisations in India.

22. Organization - KPRC Partners LLP

Nature of Linkage/Collaboration - Development of online course/s

Brief about organization - KPRC Partners LLP is limited liability partnership firm and it provides Legal Consultancy and advisory Services including corporate secretarial compliances services. KPRC is also engaged in development and delivery of educational programs at different forums for undergraduate and postgraduate students.

23. Organization - Entrepreneur-ship Development Center

Nature of Linkage/Collaboration - Conducting IP related talks/workshops

Brief about organization - It nucleates and nurture technology and knowledge-based enterprises for India by leveraging the scientific and engineering competencies of the institutions

24. Organization - Schmersal India Private Limited

Nature of Linkage/Collaboration - Development of online course/s

Brief about organization - Schmersal is engaged in manufacturing and trading a wide range of switching products to enhance the safety of men and machines.

25. Organization - IoTIoT

Nature of Linkage/Collaboration – Organizing workshop

Brief about organization - To bridge the industry-academia gap using a learn by doing approach

26. Organization - Wizcraft MIME I

Nature of Linkage/Collaboration - Innovation and technology development, facilitation and capacity development

Brief about organization - Wizcraft Management Institute of Media and Entertainment

27. Organization - A&I Digest

Nature of Linkage/Collaboration - Conducting research on emerging issues in the industry

Brief about organization - A&I is a forum for architects and interior designers, publications, design exhibitions, events, seminars, etc.

28. Organization - ASSOCHAM

Nature of Linkage/Collaboration - Membership

Brief about organization - The Associated Chambers of Commerce and Industry of India is a non-governmental trade association and advocacy group based in New Delhi, India. The organisation represents the interests of trade and commerce in India, and acts as an interface between issues and initiatives.

29. Organization - DCF Ventures LLP

Nature of Linkage/Collaboration - Service Providing

Brief about organization - DCF Ventures connects global start-ups with Indian corporations looking at innovation. Apart from this the company provides innovation consulting for corporations and governments.

30. Organization - Tata Consultancy Ltd

Nature of Linkage/Collaboration - To provide TCS application system and TCS service Environment

Brief about organization - TCS industry honour programme, is a set of structured industry designed courses in an industry relevant domain or technology offered to the institutions, institutions can integrate this set of courses with their existing degree programs to create a specialization degree in the industry relevant domain or technology

31. Organization - Research for Resurgence Foundation (RFRF), Nagpur

Nature of Linkage/Collaboration - Collaborative research and innovation

Brief about organization - The RFRF is a multi-domain research institute and a network hub of research and allied activities in academics and industrial sector.

32. Organization - Design Media and Edutainment solution Pvt. Ltd

Nature of Linkage/Collaboration - Industry Partner to deliver courses

Brief about organization - Design- Media & Edutainment Solutions is a renowned design solutions company providing dedicated services in advertising and film design verticals.

33. Organization - Ethnus

Nature of Linkage/Collaboration - Finishing School Training

Brief about organization - Ethnus offers industry-recognised certification programs in emerging technologies. It prepare learners for the future of work, training people in skills companies need.

34. Organization - Blueminds Consultancy LLP

Nature of Linkage/Collaboration - Consultancy Services on social media

Brief about organization - Blueminds offers services in career counselling, job search strategy & personal branding, resume building/linkedin profile building & effective interviewing skills

35. Organization - Bindurekha Fashion Studio

Nature of Linkage/Collaboration - Conducting contemporary research in the area of ethnic apparel and jewellery design

Brief about organization - Bindurekha Fashion Studio is label in premium range designer fashion jewellery based in Pune, design, manufacture and supply to leading apparel stores and brands throughout India

36. Organization - IMS India

Nature of Linkage/Collaboration - Examinations training, guidance and support.

Brief about organization - IMS is one of India's pioneering institutions in management education training, and was single-handedly responsible for building awareness

37. Organization - Mr. Shantanu Kulkarni

Nature of Linkage/Collaboration - Development of online course/s

38. Organization - The Indus Entrepreneurs Association Pune Chapter

Nature of Linkage/Collaboration - To promote creation of high impact start-ups that generate social and economic value for Indian society and the world-at-large.

Brief about organization - TiE is a non-profit, global community welcoming entrepreneurs from all over the world. They believe in the power of ideas to change the face of entrepreneurship and growing business

39. Organization - Sahyadri Farmers Producer Co. Ltd

Nature of Linkage/Collaboration - To understand the model of farmer producer companies

Brief about organization - SFPCL is India's one of the largest farmers producer company which is 100% farmer owned, professionally managed, grower producer company, which has business of producing, and supplying fruits and vegetables, fruit pulps, purees and pastes of fruits and vegetables and related products.

40. Organization - Teenzclap Futureworks (OPC) Private Limited

Nature of Linkage/Collaboration - Delivering skill-based course/s

Brief about organization - Teenzclap's mission is to help learners achieve success with empathy and focus on impact-led outcomes, one of the least understood aspects of developing self.

41. Organization - ANA Cyber Forensic Pvt. Ltd., Pune

Nature of Linkage/Collaboration - Development of online courses in field of cyber security

Brief about organization - ACF provides services into cyber security along with compliances, digital forensics, cyber laws and training.

42. Organization - Kusum Life Science

Nature of Linkage/Collaboration - Consulting services

Brief about organization - A Kusum Life science is a preclinical contract research organization to provide quality preclinical, pharmacology, analytical and animal supply services

43. Organization - JT Foundations (NGO)

Nature of Linkage/Collaboration - Development of Online Courses in field of Diabetes and Obesity Management

Brief about organization - JT Foundations is a non- governmental organization registered under section 8 of the companies act, 2013.

44. Organization - Willo Mather and Platt pumps pvt.ltd

Nature of Linkage/Collaboration - Faculty of art and design working on Graphic design on theme of Culture, for Willo.

Brief about organization - The Wilo Group is one of the world's leading premium providers of pumps and pump systems for the building services, water management and industrial sectors. In the past decade, we have developed from a hidden champion into a visible and connected champion. Today, Wilo has around 8,000 employees worldwide and we are in your region.

45. Organization - Centre for Police Research Pashan Road,Pune

Brief about organization - CPR is ideal for research activities and training envisioned to conduct and promote in-depth studies and fundamental and applied research pertaining to Police and related social as well as behavioral issues.

46. Organization - Extentia Information Technology, Pune

Brief about organization - Extentia Information Technology, Pune. offer software development services with proven expertise in best-in-class tools, processes, and systems that we employ to deliver solutions that impact enterprises, organisations, and consumers.

47. Organization - Entrepreneurship Development Centre (Venture Centre)

Nature of Linkage/Collaboration - Strategic collaboration for incubation and startups

Brief about organization - The Venture Center is a technology business incubator specializing in technology startups offering products and services exploiting scientific expertise in the areas of materials, chemicals and biological sciences & engineering. Venture Center strives to nucleate and nurture technology and knowledge-based enterprises by leveraging the scientific and engineering competencies of the institutions in the "Pune region" in India.

48. Organization - ASSOCHAM

Nature of Linkage/Collaboration - Lecture Series in Architect Department

Brief about organization - ASSOCHAM, India's oldest apex chamber, leverages its vast network of over 4,50,000 members, including MSMEs, to enhance the nation's global competitiveness and strengthen its domestic ecosystem. With a focus on sustainability, empowerment, entrepreneurship, and digitization, it collaborates with the government and think tanks to influence policy-making. Additionally, the chamber supports inclusive development through various initiatives in areas like healthcare, education, sustainability, and more.

49. Organization - AIESEC - Pune

Nature of Linkage/Collaboration - Collaboration for student internships

Brief about organization - AIESEC offers a chance to experience international internships for Indian students in countries like Egypt, Bahrain and more.

50. Organization - Kusum Life Sciences, Hingoli

Nature of Linkage/Collaboration - For consultancy

Brief about organization - Kusum Life Science, founded in 2020, is a leading Preclinical Contract Research Organization offering high-quality services in Preclinical, Pharmacology, and Analytical testing. Their state-of-the-art facility caters to diverse industries, providing Toxicology, Pharmacology, and Pharmacopoeia testing services.

51. Organization - Brainsmaart Solutions

Nature of Linkage/Collaboration - Providing career guidance and generating internship opportunities to students. Providing leadership and training to staff.

Brief about organization - Training is provided in a holistic manner that empowers the youth to make an impact in society by transcending from personal aspirations to being a contributor to Society.

52. Organization - Minimac systems Pvt. Ltd.

Nature of Linkage/Collaboration - Collaboration for skill development/ enhancement of students and faculty development programmes

Brief about organization - Founded in 2012, Minimac Systems Pvt Ltd. is a prominent technical consultant, trainer, and service provider, specializing in End-to-end Lubrication Reliability Solutions. Registered as an MSME under NSIC, the company offers solutions like the Efficient Reliability Programme and TPM. Minimac provides standardised and customised global solutions for Oil Purification, Filtration, and Flushing Systems, OEM filter replacements, Oil Testing devices, and Minimac Operations & Maintenance Services (MOMS) for various oil types. Minimac's mission and vision are strongly aligned with Clean Tech and ESG sustainability principles, serving as key drivers for sectoral growth.

Institutional Memberships

In today's dynamic and interconnected academic landscape, institutional memberships have emerged as invaluable assets for universities. These affiliations offer a multitude of advantages that elevate the institution's stature and impact. The following institutional memberships are an investment in our university's growth and excellence:

1. FICCI-Membership

Established in 1927, the Federation of Indian Chambers of Commerce and Industry (FICCI) is the oldest, largest and the apex business chamber in India. Our history is closely interwoven with India's independence struggle and now with her emergence as one of the most rapidly growing economies globally.

2. ASSOCHAM-Membership

The Associated Chambers of Commerce and Industry of India is a non-governmental trade association and advocacy group based in New Delhi, India. The organisation represents the interests of trade and commerce in India, and acts as an interface between issues and initiatives.

3. ADI -Membership

Association of Designers of India (ADI) vision is to be a world class network representing professional interests of Indian Design community, creating a meaningful interface between design professionals, people as users, the industry, education institutions and the policy makers.

4. MCCIA -Membership

Mahratta Chamber of Commerce, Industries and Agriculture continuously strives to promote Pune as a premier investment destination as well as a major global source of quality products and services. MCCIA has been instrumental in setting up and bringing to Pune several institutions important for business.

5. CII-Yi -Student Chapter

Confederation of Indian Industry-Young Indians (CII-Yi) engage students in various initiatives that the students conceptualize, and execute. In tune with the Yuva vision to influence inspire and motivate millions of students across the country, Yi is working with Vishwakarma University by forming a Yi Yuva chapter at VU

6. NHRDN-Membership

Established over 30 years ago, National human resource development NHRDN is an autonomous, not-for-profit professionally managed organization, playing a catalyst role in grooming leaders for tomorrow.

7. TSSC-Membership

Telecom Sector Skill Council (TSSC) is a Non-Profit Organization, registered under the Societies Registration Act, 1860. It is an industry-led apex body, jointly set up by the Cellular Operators Association of India (COAI), Indian Cellular and Electronics Association (ICEA) and National Skill Development Corporation (NSDC), to ensure adequate availability of skilled manpower to boost growth and productivity in the Telecom sector.

8. APTI - Membership

Association Of Pharmaceutical Teachers of India (APTI) - an association found by the pioneers of Pharmacy education in India in 1966 by leading personalities like Prof. M. L. Schroff, Prof. G. P

Srivastava and others, has come a long way in creating better intercommunication and promotion of excellence in pharmacy education.

9. IPA- Membership

Indian Pharmaceutical Association (IPA) is a non-governmental organization National body representing over 1 million pharmacists and pharmaceutical scientists from Industry, Academia, Regulatory, Hospital and Community Pharmacy and work to meet the India's health care needs.

Maximising Human Potential through Research

Vishwakarma University stands as a beacon of academic excellence, driven by a profound commitment to advancing research that not only contributes to the greater good but also respects and preserves our natural environment. This institution has made it a primary goal to conduct multi-disciplinary transformational research that directly addresses the pressing needs of society. It operates under the overarching vision of "Maximizing Human Potential," which serves as its guiding light in all research endeavors.

The university places a strong emphasis on laying the foundation for achieving this vision. High-quality research is at the core of its mission, as it recognizes that this is the cornerstone for creating meaningful applications that can truly benefit society. In the quest to meet these societal needs, Vishwakarma University has embraced a broad range of research areas, a testament to the diversity and expertise of its faculty members who hail from various academic disciplines.

Understanding that research doesn't exist in isolation, the institution has also expanded its horizons to encompass technological and social innovations. Beyond traditional research and development activities, it strives to foster an environment where innovation thrives. This holistic approach enables the university to adapt to the dynamic nature of societal needs.

Central to all these efforts is the university's commitment to instilling a robust research culture within its academic community and beyond. This culture is not confined to its faculty alone but extends to all stakeholders, including students, administrative staff, and the broader community. By nurturing a research-centric ethos, Vishwakarma University ensures that its impact on society goes beyond the confines of its campus.

Link: <https://research.vupune.ac.in/ourresearchers>

Key Initiatives to Strengthen the Research Culture

1. Director Research and Director Innovation, IPR & Entrepreneurship have been appointed for policy-making and initiating various R&D-related activities.
2. To percolate the policies and vision related to research, the Vice-Chancellor nominates members from every faculty in the Research Initiative Cell and the IPR & Entrepreneurship Cell.
3. For faculty development, efforts such as deputing faculty for internships in industry, deputation for collaborative research, encouragement to pursue a doctorate, facilitation of knowledge creation, training, and organisation of faculty competitions are undertaken regularly.
4. Based on individual expertise, every faculty is encouraged to generate funds through consultancy/ research projects/training/patents.
5. To bring out the students' research potential, the University is doing significant innovations in

the Teaching-Learning process such as project-centric learning, student conferences, technical activities, and semester-long internships in industry or research organisations.

6. The University has established Centres of Excellence (COE) in identified thrust areas by collaborating with International Universities and Industries.

Link: <https://research.vupune.ac.in/index>



Research Support

Vishwakarma University (VU) is firmly dedicated to nurturing a vibrant research culture by instilling a sense of research aptitude among all its stakeholders, which includes, but is not limited to, faculty members, researchers, students, and other university employees. To realize this commitment, VU has put in place various supportive initiatives, with its guiding vision of “Maximising Human Potential” providing the foundation for high-quality research endeavors. One of the key initiatives undertaken by VU is to provide financial support and assistance to those involved in research, spanning faculty members, researchers, students, and other staff members, whether they are engaged in in-house research projects or in the preparation and submission of research proposals to both government and non-government organizations. Furthermore, VU actively encourages young faculty, staff, and other employees to embark on their research journeys by offering valuable support in the form of Research Grants.

The following policies have been framed for the facilitation of faculties:

1. Seed Money and Research Grant Policy

The University provides Seed Money required for generating preliminary results and ‘Proof of Concept’ for the shortlisted research proposals, which can then be submitted to Government and Non-Governmental organisations for further funding. The Policy has been instituted to support faculty members, staff, researchers, students, and other employees of the University undertaking in-house projects by providing financial assistance, thereby encouraging them to pursue high-quality research.

<https://research.vupune.ac.in/downloads/VUSeedMoneyandResearchGrantPolicy.pdf>

2. Research Mobilization Policy

The University has set up a Research & Development Fund (R & D Fund) to take care of research activities that include but is not limited to:

- I. Fees for research publications in conferences and/or journals
- II. Expenses incurred on travelling, accommodation, and food during Conferences, Paper Presentations and/or Field Activities
- III. Expenses incurred by stakeholders attending Training, Workshops, Seminars and Short-term

Training Programmes (STTP)

The funds would be raised by contributions from consultancy projects and overhead charges sanctioned in research projects offered by the Government and Non-Governmental organisations.

<https://research.vupune.ac.in/downloads/VUResearchMobilizationPolicy.pdf>

3. Research Promotion Policy

The University provides financial assistance to all the stakeholders, including but not limited to faculty members, researchers, students, and other employees for undertaking various initiatives, including but not limited to:

- I. Faculty Deputation for Training, Workshops, Seminars and Short-term Training Programmes (STTP)
- II. Financial Support for Publication
- III. Mobilisation of Resources

<https://research.vupune.ac.in/downloads/VUResearchPromotionPolicy.pdf>

4. Consultancy Policy

The consultancy Policy provides a framework for enabling the faculty and staff of Vishwakarma University to engage in consultancy assignments. The policy provides guidelines for distributing the consultancy amount received after deducting all the expenses.

<https://research.vupune.ac.in/downloads/Consultancy-Policy.pdf>

Publications in 2023

The year 2023 served as a new beginning for faculties to engage themselves in fruitful and innovative research work. At Vishwakarma University, we believe that good research is the most authentic way to connect academia with industry. The list below is a testament to the same vision

1. Title of Paper - Eiddm: Edge And Internet Layer Distributed Dos Threats Detection And Mitigation For Internet Of Things Wireless Communications

Name of Journal - Wireless Personal Communications

<https://www.springer.com/journal/11277>

<https://doi.org/10.1007/s11277-023-10453-w>

2. Title of Paper - Hybrid Gated Recurrent Unit And Convolutional Neural Network-Based Deep Learning Mechanism For Efficient Shilling Attack Detection In Social Network

Name of Journal - Computers and Electrical Engineering

<https://www.sciencedirect.com/journal/computers-and-electrical-engineering>

<https://www.sciencedirect.com/science/article/abs/pii/S0045790623000976>

3. Title of Paper - Yoga dataset: A resource for computer vision-based analysis of Yoga asanas

Name of Journal - Data In Brief <https://www.sciencedirect.com/journal/data-in-brief>

<https://www.sciencedirect.com/science/article/pii/S2352340923003761>

- 4 Title of Paper - Face mask wearing image dataset: A comprehensive benchmark for image-based face mask detection models

Name of Journal - Data In Brief

<https://www.sciencedirect.com/journal/data-in-brief>

<https://www.sciencedirect.com/science/article/pii/S2352340923008247>

5. Title of Paper - Mint leaves: Dried, fresh, and spoiled dataset for condition analysis and machine learning applications

Name of Journal - Data In Brief

<https://www.sciencedirect.com/journal/data-in-brief>

<https://www.sciencedirect.com/science/article/pii/S2352340923007886>

6. Title of Paper - A comprehensive dataset of damaged banknotes in Indian currency (Rupees) for analysis and classification

Name of Journal - Data In Brief

<https://www.sciencedirect.com/journal/data-in-brief>

<https://www.sciencedirect.com/science/article/pii/S235234092300776X>

7. Title of Paper - Coconut (Cocos nucifera) tree disease dataset: A dataset for disease detection and classification for machine learning applications

Name of Journal - Data In Brief

<https://www.sciencedirect.com/journal/data-in-brief>

<https://www.sciencedirect.com/science/article/pii/S2352340923007692>

8. Title of Paper - Addressing misclassification in deep learning: A Merged Net approach Name of Journal - Software Impacts

<https://www.sciencedirect.com/journal/software-impacts>

<https://www.sciencedirect.com/science/article/pii/S2665963823000623>

9. Title of Paper - Sensor based dataset to assess the impact of urban heat island effect mitigation and indoor thermal comfort via terrace gardens

Name of Journal - Data In Brief

<https://www.sciencedirect.com/journal/data-in-brief>

<https://www.sciencedirect.com/science/article/pii/S2352340923005310>

10. Title of Paper - Quantitative Determination Of Related Substances For Lamotrigine Extended Release Tablet By Rp-Hplc

Name of Journal - Heliyon

<https://www.cell.com/heliyon/home>

<https://doi.org/10.1016/j.heliyon.2023.e15732>

11. Title of Paper - Magnesium Oxide Nanotube As Novel Strategies To Enhance The Anticancer Activity Of 5-Fluorouracil

Name of Journal - Journal of Molecular Liquids

<https://www.sciencedirect.com/journal/journal-of-molecular-liquids>

<https://doi.org/10.1016/j.molliq.2023.122214>

12. Title of Paper - Quantitative Determination Of Related Substances For Lamotrigine Extended Release Tablet By Rp-Hplc

Name of Journal - Heliyon

<https://www.cell.com/heliyon/home>

<https://doi.org/10.1016/j.heliyon.2023.e15732>

13. Title of Paper - Optimal Routing Using Whale Optimization And Lion Optimization Algorithm In Wsn

Name of Journal - Wireless Networks

<https://link.springer.com/journal/11276>

<https://doi.org/10.1007/s11276-023-03607-y>

14. Title of Paper - Bioactive Molecules From Terrestrial And Seafood Resources In Hypertension Treatment: Focus On Molecular Mechanisms And Targeted Therapies

Name

of Journal - Natural Products and Bioprospecting

<https://link.springer.com/journal/13659>

<https://link.springer.com/article/10.1007/s13659-023-00411-1>

15. Title of Paper - K-Th Record Moments And Characterization Of Inverted Nadarajah-Haghighi Distribution

Name of Journal - Pakistan Journal of Statistics

<http://www.pakjs.com/#aboutme> <http://www.pakjs.com/2023-2/>

16. Title of Paper - Social Media Sentiment Analysis To Differentiate The Nature Of The User Using Machine Learning

Name of Journal - European Chemical Bulletin

<https://www.eurchembull.com/issue-content/social-media-sentiment-analysis-to-differentiate-the-nature-of-the-user-using-machine-learning-1266>

<https://www.eurchembull.com/uploads/paper/5f57c43021297d9ce896106ce13d7757.pdf>

17. Title of Paper - Natural Language Processing Using Fuzzy Processing For English Text Summarization

Name of Journal - European Chemical Bulletin

<https://www.eurchembull.com/issue-content/natural-language-processing-using-fuzzy-processing-for-english-text-summarization-1271>

<https://www.eurchembull.com/issue-content/natural-language-processing-using-fuzzy-processing-for-english-text-summarization-1271>

18. Title of Paper - A Novel Multi-Stage Stacked Ensemble Classifier Using Heterogeneous Base Learners

Name of Journal - SSRG International Journal of Engineering Trends and Technology

<https://ijettjournal.org/> <https://ijettjournal.org/archive/ijett-v71i4p206>

19. Title of Paper - Clinical Trials In India: Towards Effective Regulation A Critical Analysis Of The Regulatory System In India

Name of Journal - Latin American Journal of Pharmacy

<http://actafarmbonaerense.com.ar/index.php/latamjpharm/index>

<http://actafarmbonaerense.com.ar/index.php/latamjpharm/article/view/206>

20. Title of Paper - Design And Characterization Of Nanoemulgel For Topical Fungal Infection: Box Behnken Design Approach

Name of Journal - European Chemical Bulletin

<https://eurchembull.com>

<https://www.eurchembull.com/uploads/paper/1433bc432d184147bc28e41535e0f544.pdf>

21. Title of Paper - Experimental Investigations On Thermal Analysis Of Paraffin Wax As Phase Change Material In Solar Still For Thermal Energy Storage Applications

Name of Journal - European Chemical Bulletin

<https://www.eurchembull.com/>

<https://www.eurchembull.com/uploads/paper/1a1e77a5efa59082088c9f37aaef73fa.pdf>

22. Title of Paper - Enhancement Of Thermal Characteristics And Stability Of Phase Change Materials In Presence Of Nanoparticles For Solar Applications In Latent Heat Storage Systems: Review

Name of Journal - European Chemical Bulletin

<https://www.eurchembull.com/>

<https://www.eurchembull.com/issue-content/enhancement-of-thermal-characteristics-and-stability-of-phase-change-materials-in-presence-of-nanoparticles-for-solar-applications-in-latent-heat-storage-systems-review-1692>

23. Title of Paper - Security And Qos (Quality Of Service) Related Current Challenges In IoT Name of Journal - SSRG International Journal of Electronics and Communication Engineering

<https://www.internationaljournalsrsg.org/IJECE/index.html>

<https://doi.org/10.14445/23488549/IJECE-V10I4P102>

24. Title of Paper - Evaluation Of Anti Convulsant Potential Of Allium Sativum Extract In Validated Animal Models

Name of Journal - European Chemical Bulletin

<https://www.eurchembull.com/issue-content/evaluation-of-anti-convulsant-potential-of-allium-sativum-extract-in-validated-animal-models-9778>

<https://www.eurchembull.com/issue-content/a-comparative-evaluation-of-antimicrobial-efficacy-of-various-disinfectants-on-different-denture-base-materials-5692>

25. Title of Paper - Impact Of Covid-19 In Pune Ug Pg Programmes With Major Paradigm Shift

Name of Journal - European Chemical Bulletin

<https://www.eurchembull.com/>

<https://www.eurchembull.com/uploads/paper/847ff1decf3cba9cfa3b8ef0941393bb.pdf>

26. Title of Paper - Common Mechanism For Detecting Multiple Ddos Attacks

Name of Journal -International Journal on Recent and Innovation Trends in Computing and Communication

<https://ijritcc.org>

<https://ijritcc.org/index.php/ijritcc/article/view/6390>

27. Title of Paper - Evaluation Of Sample Size And Efficient Field Sampling Plan In Hdp Apple Orchards

Name of Journal - Reliability: Theory and Applications

https://gnedenko.net/Journal/2023_4.htm

https://gnedenko.net/Journal/2023/042023/RTA_4_2023-44.pdf

28. Title of Paper - Optimizing Machine Learning Models: An Adaptive Hyperparameter Tuning Approach

Name of Journal - International Journal of Intelligent Systems and Applications in Engineering

<https://ijisae.org/index.php/IJISAE>

<https://ijisae.org/index.php/IJISAE/article/view/3532>

29. Title of Paper - Adaptive One-Dimensional Convolutional Neural Network For Tabular Data

Name of Journal - International Journal on Recent and Innovation Trends in Computing and Communication

<https://ijritcc.org/index.php/ijritcc/index>

<https://ijritcc.org/index.php/ijritcc/article/view/9228>

30. Title of Paper - Modified Cyclodextrin-Based Thermosensitive In Situ Gel For Voriconazole Ocular Delivery Against Fungal Keratitis

Name of Journal - International Journal of Applied Pharmaceutics

<https://journals.innovareacademics.in/index.php/ijap/index>

<https://eudl.eu/doi/10.4108/eetsis.4264>

31. Title of Paper - Stock Market Capital Creation From Defence Officers' Retirement Corpus

Name of Journal - European Chemical Bulletin

<https://www.eurchembull.com/>

<https://www.eurchembull.com/uploads/paper/69b226baa956918b2df41fbfd19b8241.pdf>

32. Title of Paper - The Psychological Impact Of Adopting A Healthcare Blockchain System- Pros And Cons

Name of Journal - Journal for ReAttach Therapy and Developmental Diversities

<https://jrtd.com>

<https://doi.org/10.52783/jrtd.v6i1s.232>

33. Title of Paper - Prediction Of Students' Performance For Placement Using A Clustering Technique

Name of Journal - European Chemical Bulletin

<https://www.eurchembull.com/>

<https://www.eurchembull.com/issue-content/prediction-of-students-performance-for-placement-using-a-clustering-technique-11271>

34. Title of Paper - Synthesis And Study Of Antimicrobial Activity Of N, N'- Disubstituted Acyl Thiourea Derivatives

Name of Journal - International Journal of Biology, Pharmacy and Allied Sciences

www.ijbpas.com

<https://doi.org/10.31032/IJBPA/2023/12.3.6952>

35. Title of Paper - Identification And Comparison Of Frequent Steps For Evaluating And Designing Online Admission Systems Using Data Mining In R And Weka Referring To Professional Programmes

Name of Journal - The Online Journal of Distance Education and e-Learning

<https://tojdel.net>

<https://tojdel.net/journals/tojdel/volumes/tojdel-volume11-i02.pdf>

36. Title of Paper - The Role Of Innovative Information Technology Implies Significant In Digitalized Smart Konkan

Name of Journal - The Online Journal of Distance Education and e-Learning

<https://tojdel.net>

<https://tojdel.net/journals/tojdel/volumes/tojdel-volume11-i02.pdf>

37. Title of Paper -

Anhad Lok

Name of Journal - <https://vyanjanasociety.com/anhad-lok/>

<https://vyanjanasociety.com/wp-content/uploads/2023/02/Anhad-Lok-16.pdf>

38. Title of Paper - Energy Efficient Systems In Interior Design

Name of Journal - Journal of the Maharaja Sayajirao University of Baroda

<https://ugccare.unipune.ac.in/Apps1/User/WebA/ViewDetails?JournalId=101000039&flag=Search>

[not available - print copy](#)

39. Title of Paper - Painting Impermanence

Name of Journal - hākārā

<https://www.hakara.in/>

<https://www.hakara.in/anand-shatrughna-pratap/>

40. Title of Paper - Literature Review On Visual Exaggeration In Television Advertisements: Influencing Purchasing Habits And Self- Identity Formation Among Teenagers

Name of Journal - The Online Journal of Distance Education and e-Learning

<https://tojdel.net/?pid=showissue&issueid=279>

<https://tojdel.net/journals/tojdel/articles/v11i02b/v11i02b-82.pdf>

41. Title of Paper - Unleashing The Power Of Animation In Marketing: Insights And Implications

Name of Journal - The Online Journal of Distance Education and e-Learning,

<https://tojdel.net/?pid=showissue&issueid=279>

<https://www.tojned.net/journals/tojdel/articles/v11i02b/v11i02b-107.pdf>

42. Title of Paper - Empowering Autonomy :Nep 2020'S Impact On Autonomous Colleges In India

Name of Journal - Satraachee

<https://www.satraachee.org.in/index.php>

https://www.satraachee.org.in/admin/journal_pdf/20240315023635SAT_40_N4_Pdf.pdf

43. Title of Paper - The Impact Of Indian Exaggerated Animated Television Advertisements On Consumer

Name of Journal - ShodhKosh: Journal of Visual and Performing Arts

<https://www.granthaalayahpublication.org/Arts-Journal/ShodhKosh/index>

<https://doi.org/10.29121/shodhkosh.v4.i2SE.2023.557>

44. Title of Paper - Artificial Intelligence Governance: An Arduous Drive To Fourth And Fifth Industrial Revolution

Name of Journal - Phalanx: A Quarterly Review for Continuing Debate

<https://www.phalanx.in/>

https://www.researchgate.net/publication/370658641_Phalanx_A_Quarterly_Review_for_Continuing_Debate_ARTIFICIAL_INTELLIGENCE_GOVERNANCE_AN_ARDUOUS_DRIVE_TO_FOURTH_AND_FIFTH_INDUSTRIAL_REVOLUTION

45. Title of Paper - Brand Orientation In Micro, Small And Medium Enterprises: Empirical Study In Service Sector

Name of Journal - Anvesak

<https://www.spiesr.ac.in/Anvesak/About+the+Journal>

https://www.researchgate.net/publication/375797469_Brand_Orientation_in_Micro_Small_and_Medium_Enterprises_Empirical_Study_in_Service_Sector

46. Title of Paper - Transethosomes: An Innovative Approach For Drug Delivery

Name of Journal - Asian Journal of Pharmaceutics

<https://www.asiapharmaceutics.info/index.php/ajp/index> <https://doi.org/10.22377/ajp.v17i04.5081>

47. Title of Paper - Natural Remedies For Onychomycosis: A Review

Name of Journal - Journal of Natural Remedies

<https://informaticsjournals.com/home/journals/journal-of-natural-remedies>

<https://www.informaticsjournals.com/index.php/jnr/article/view/33695>

48. Title of Paper - Animal Safety And Welfare Using IoT

Name of Journal - International Journal for Multidisciplinary Research (IJFMR)

<https://www.ijfmr.com/papers/2023/3/3531.pdf>

<https://www.ijfmr.com/research-paper.php?id=3531>

49. Title of Paper - Indian Tribal Health: A Call For A Comprehensive Health Policy

Name

of Journal - International Journal of Advance and Innovative Research

<https://ijairjournal.in/>

<https://www.iaaedu.com/about-journal/ijair-volume-10-issue-3-i-july-september-2023.php>

50. Title of Paper - Sulindac-Loaded Topical Nanoemulgel Formulation And Optimization

Name of

Journal - Bulletin of Environment, Pharmacology and Life Sciences

<https://bepls.com>

<https://bepls.com/beplsJuly2023/33.pdf>

51. Title of Paper - Eechs-Aro: Energy Efficient Cluster Head Selection Mechanism For Livestock Industry Using Artificial Rabbit'S Optimization And Wireless Sensor Networks

Name of Journal

- Electronic Research Archive

<https://www.aimspress.com/journal/era>

<https://www.aimspress.com/article/doi/10.3934/era.2023158>

52. Title of Paper - Sustainability Reporting And Accounting By The Indian Corporates

Name of

Journal - Journal of Pharmaceutical Negative Results

<https://www.pnrjournal.com/index.php/home/about>

<https://doi.org/10.47750/pnr.2023.14.S01.6.3>

Link to University publications dataset: <https://research.vupune.ac.in/2023>

Transforming Ideas into Reality

In the process of transforming ideas into reality, Vishwakarma University inculcates the aspect of innovation right from the entry of a student to the university. Patents have been filed since 2019 as a result of the creative and innovative ideas of the students and faculty.

1. Vertical Sewage Treatment Plant
Patent Application Number - 202121043909
2. The Modified Aerobic Reactor in Vertical Sewage Treatment Plant
Patent Application Number - 02121043910
3. The Novel Anaerobic System in Vertical Sewage Treatment Plant
Patent Application Number - 202121043877
4. Freeze Concentration Technology in Vertical Sewage Treatment Plant
Patent Application Number - 202121043907
5. A Method of Optimization to Minimize Combined Volume of Aerobic and Anaerobic Reactor
Patent Application Number - 202121044823
6. Design of miniaturized Energy Harvester for Human Shoe Application
Patent Application Number - 202221003245
7. A Potable Water Treatment and Dispensing System
Patent Application Number - 202221032499
8. A System For Cooling and Heating Water in a Household Water Purification and Dispensing System
Patent Application Number - 202221032498
9. An Automated Implantable Cardiac Monitoring Device For Detecting Arrhythmia
Patent Application Number - 202221032500
10. An Automated Accident Prevention System
Patent Application Number - VUIQUBE/23/P/1011
11. An Automatic Footpeg With An Opening/Pulling Out And Closing Pulling Back In Mechanism
Patent Application Number - VUIQUBE/23/P/1008
12. "Influence Of Factorial Design On Novel Composition Of Nano Lipid Carriers (Nlcs) For The Treatment Of High Blood Pressure And The Process Thereof"
Patent Application Number - VUIQUBE/23/P/
13. Innovative Work Of Art For The Treatment Of Cholesterol And Triglycerides And The Process Thereof
Patent Application Number - VUIQUBE/23/P/
14. Cosmetic Skin Glowing And Anti-Photoaging Composition Made Up Of Rudraksha Extract And Butterfly Pea Extract Showing Synergistic Activity
Patent Application Number - VUIQUBE/23/P/

Link to University patent dataset: <https://research.vupune.ac.in/patent>



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