

VISHWAKARMA UNIVERSITY

SDG 9 REPORT 2024



**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 2024

Vishwakarma University (VU) also participated last year in Times Higher Education (THE) Impact Rankings 2024, 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 sustainable
industrialization and foster
innovation**

Industry, Innovation and Infrastructure

Vishwakarma University (VU) is committed to creating meaningful change by leveraging research and innovation that address pressing societal and industrial challenges. Our educational philosophy is rooted in bridging academic knowledge with real-world applications, ensuring that our teaching, research, and outreach remain aligned with the dynamic needs of both industry and society.

At the core of VU's industry engagement lies the goal of co-creating solutions that are not only effective and scalable but also socially and environmentally responsible. We actively collaborate across diverse sectors—ranging from large corporations and SMEs to start-ups, social enterprises, and independent professionals—building a network that fosters growth and shared impact.

Our transdisciplinary Centres of Excellence serve as innovation engines, enabling industry-academia partnerships that span the entire spectrum of ideation, prototyping, and value creation. These centres ensure that innovation is nurtured at every stage, ultimately leading to practical outcomes with measurable benefits.

VU's teaching-learning ecosystem integrates hands-on learning, internships, placements, and research-driven initiatives, equipping students with the skills, mindset, and exposure required to thrive in contemporary workplaces. Our industry connect is further strengthened through:

- Industry on Campus initiatives
- Centres of Excellence co-created with industries
- Sponsored and contract-based research collaborations
- Membership in professional bodies
- An active Industry Advisory Board
- Strong recruiter relationships
- Industry-supported events, sponsorships, and expert interactions

Through these sustained efforts, VU continues to position itself as a catalyst for innovation, employability, and sustainable impact, reinforcing its vision of education that empowers both individuals and industries alike.

A. Placement and Career Progression Office

The Placements & Career Progression Office at Vishwakarma (VU) has consistently played a pivotal role in preparing students for successful and sustainable careers. Acting as a vital bridge between academia and industry, the office ensured that students were equipped not only with strong academic knowledge but also with the professional competencies and adaptability needed to thrive in dynamic sectors.

Through its Campus Placement Program, final-year students were supported in securing employment, internships, and paid projects. Leveraging an extensive network of 1500+ diverse industry linkages and 700+ active recruiters, the office created pathways to meaningful opportunities across large corporations, MSMEs, start-ups, social enterprises, and professional networks. Complementing this, VU nurtured more than 75 industry collaborations and over 25 global partnerships, which expanded opportunities for innovation, cross-border exposure, and international career mobility.

The University's distinctive Placement and Career Progression Assistance Programme (PCPAP) provided a structured framework of mentoring, training, and guidance, ensuring that students were thoroughly

prepared for the demands of the professional world. Additionally, from the academic year 2024-25, VU introduced Value-Added Career Oriented (VACO) Tracks as a pioneering initiative. These tracks allowed students to explore career progression through multiple avenues, including Global Experiential Learning, Industry Attachment, Research & Innovation, Academic Progression, Entrepreneurship, Community Engagement, and Government & Public Sector. This forward-looking model positioned students to align their aspirations with emerging industry trends while reinforcing the university's commitment to innovation and infrastructure.

Placement drives were organized throughout the year in multiple formats—on-campus, virtual, in-company, and pool campus drives—to maximize accessibility and opportunity. These efforts reflected the university's emphasis on flexibility and inclusivity in placement infrastructure.

By combining academic rigor, practical learning experiences, industry collaborations, and global exposure, VU established a robust placement ecosystem that consistently delivered outstanding outcomes. The university takes pride in its strong track record of numerous students securing placements across leading national and international organizations, thereby contributing to SDG 9 by strengthening industry linkages, nurturing innovation, and building resilient career infrastructure for future generations.

B. Industry Connect Office

The Industry Connect Office at Vishwakarma University (VU) was established to bridge the gap between academia and industry through a series of strategic and well-structured initiatives. Its overarching aim was to maximize human potential by equipping students with the skills, knowledge, and industry exposure necessary for their holistic professional development.

Aims and Objectives

The office focused on three primary goals:

Enhancing Employability: Providing students with career readiness through hands-on workshops, internships, live industry assignments, and skill-development opportunities.

Fostering Collaboration: Building partnerships with industries to promote joint research, problem-solving initiatives, and innovation that benefited both students and companies.

Promoting Entrepreneurship: Encouraging entrepreneurial thinking by offering mentoring, resources, and real-world challenges to cultivate a spirit of innovation and start-up culture among students.

To achieve these goals, the office set specific objectives, such as facilitating joint research projects with industry professionals, integrating summer internships into curricula across disciplines, organizing expert-led workshops and seminars, offering career counseling through psychometric profiling and mock job fairs, and engaging students in live assignments to apply theoretical knowledge in practical contexts.

Operational Framework

The working system of the Industry Connect Office relied on several robust mechanisms:

Industry Advisory Boards guided curriculum design by aligning academic offerings with current industry needs.

Diverse Learning Activities catered to different learning styles through group projects, individual tasks,

and collaborative assignments.

Mentorship Programs paired students with industry professionals to foster career growth and networking opportunities.

Engagement with Industry Experts brought guest speakers and professionals into the classroom to share real-world insights.

Collaborative Events such as conferences, summits, and competitions connected students directly with industry leaders to co-create solutions.

Feedback Mechanisms ensured continuous improvement by incorporating industry feedback into academic planning and student training.

Implementation Strategies

The Industry Connect Office employed a structured approach to realize its objectives:

Integrated Learning: Blending academic learning with experiential exposure through internships, live projects, and workshops.

Networking Opportunities: Creating platforms for meaningful interactions between students and industry professionals.

Continuous Assessment: Monitoring the effectiveness of its programs through student feedback and industry input, ensuring that initiatives remained responsive to emerging trends.

Industry Projects

Vishwakarma University is deeply engaged in industry-oriented project work, fostering collaboration between academia and real-world practice. Through strategic partnerships with leading organizations across sectors such as engineering, healthcare, design, technology, and sustainability, the university enables students and faculty to work on live industry projects that promote innovation, problem-solving, and skill development. These collaborations not only strengthen industry-academia synergy but also prepare learners to meet emerging professional and societal needs with practical expertise. A list of a few selected projects are provided below

Industry Partner	Project Title
Wilo India Mather and Platt, Pune	Condition monitoring of machine tools
Tata Gotion Autocomp Pvt. Ltd.	IoT enabled Laser weld inspection system
Kenvision Robotic Systems	IoT enabled Bluetooth-based tipper control system
Spearsoft Techno Solutions Pvt. Ltd.	AI-Powered Diagnostic Tool for X-Ray Image Analysis in Healthcare
KRIA Industries	AI-Powered Under-Age Detection System for Entry Gate Access Control
JK Defence	Immersive AR/VR Simulation System for Advanced Training
ScoiTechnologies Pvt. Ltd.	Data Analysis and AI System Development
Bloggerscon Vision Pvt. Ltd.	Vulnerability Assessment and Penetration Testing (VAPT)

Industry Partner	Project Title
NEA Life Pvt. Ltd.	Preliminary Feasibility Study for Competency Mapping of School Teachers
ComfNet Solution GmbH	Brand Manual Creation for ConfNet Solutions GmbH (IMEC Rebranding)
Taledge	Taledge Portal Creation
GUD2EAT – Millet Café	Website Creation for Millet Café Brand Promotion
Sahyadri Hospitals Pvt. Ltd.	Executive Development Programme for Hospital Staff
Quilt Collective	Social Design Project for Women Empowerment
Vishwakarma University	Development of Assistive Aids for Cerebral Palsy Patients
Maharashtra Bamboo Promotion Foundation	Bamboo Green House
Asmi Infinity Pvt. Ltd.	Branding Design – Bright Chamo Academy
Rajiv Gandhi Zoological Park	Documentary Film
Recharakha	Furniture from Waste Material
Studio Sakha	Application of Indian Folk and Tribal Art in Adaptive Reuse Proposal – Govindgarh Fort, M.P.

C. Events Centered around Industry

• Workshops & Training (Innovation, Data & AI)

01. Event Name - Workshop – Open Sesame: Your First Step into the World of Analysis

Department - Commerce & Management

SDG 9 Area - Digital Transformation & Innovation Skills

[Link](#)

02. Event Name - Mastering Data Analysis: Workshop on SPSS

Department - Commerce & Management

SDG 9 Area - Research & Data Infrastructure

[Link](#)

03. Event Name - Guest Lecture: Data Science – Is It Not the Same as Statistics?

Department - Science & Technology

SDG 9 Area - Emerging Tech for Research & Industry

04. Event Name - Digital Transformation Using AI/ML in Electronics Manufacturing

Department - International Relations Cell

SDG 9 Area - Industry 4.0 Applications

[Link](#)

05. Event Name - Workshop: Empowering Your Business with AI-driven Data Visualization Tools

Department - Commerce & Management

SDG 9 Area - AI for Business Innovation

[Link](#)

06. Event Name - Workshop on Robotics Process Automation

Department - Commerce & Management

SDG 9 Area - Automation & Digital Infrastructure

[Link](#)

07. Event Name - Workshop on Robotics Process Automation

Department - Science & Technology

SDG 9 Area - Artificial Intelligence for Innovation

[Link](#)

08. Event Name - Workshop on DevOps

Department - Science & Technology

SDG 9 Area - Digital Infrastructure in Software

[Link](#)

09. Event Name - Three-day Workshop: Leveraging Gen AI for Enhanced Teaching & Research

Department - CTL

SDG 9 Area - AI in Higher Education & Research

[Link](#)

10. Event Name - One-week Short-term Training Programme on Data Analytics

Department - Science & Technology

SDG 9 Area - Data Science & Analytics Skills

[Link](#)

• Industrial Visits & Site Exposure

01. Event Name - Industrial Visit to Cotton King

Department - Commerce & Management

SDG 9 Area - Exposure to Sustainable Industry

[Link](#)

02. Event Name - Student Visit to IIT Bombay

Department - VU Institute of Innovation

SDG 9 Area - Research & Innovation Exposure

03. Event Name - Industrial Visit – ACG Group of Companies (B.Pharmacy)

Department - Pharmacy

SDG 9 Area - Pharmaceutical Industry Infrastructure

[Link](#)

04. Event Name - Final Year B.Arch: Swimming Pool Design Site Visit

Department - Architecture

SDG 9 Area - Applied Infrastructure Learning

[Link](#)

• **Innovation Fests, Conferences & Competitions**

Event Name - VU Entrepreneurship Fest – Vishwa Venture

01. Department - Innovation & Entrepreneurship

SDG 9 Area - Entrepreneurship & Innovation Ecosystem

[Link](#)

02. Event Name -Capstone Project Exhibition (B.Tech)

Department - Science & Technology

SDG 9 Area - Student Innovation & Research

[Link](#)

03. Event Name -Annual Students Exhibition of Faculty of Architecture

Department - Architecture

SDG 9 Area - Design & Sustainable Infrastructure

[Link](#)

04. Event Name -Innovation Fest 2024

Department - Science & Technology

SDG 9 Area - Fostering Innovation Culture

[Link](#)

05. Event Name -Navachar – C2P2 Project Competition

Department - CTL

SDG 9 Area - Student-led Innovative Projects

[Link](#)

06. Event Name -METAMORPHOSIS Media Conference

Department - Journalism & Mass Comm

SDG 9 Area - Innovation in Media & Communication

[Link](#)

07. Event Name - 4th Elets Education Innovation Summit

Department - VC Office

SDG 9 Area - Educational Innovations

[Link](#)

• Guest Lectures (Industry & Tech)

01. Event Name - Guest Lecture – Java Application Development & Generative AI

Department - Commerce & Management

SDG 9 Area - Digital Transformation & Innovation Skills

[Link](#)

02. Event Name -Guest Lecture – High Performance Computing

Department - Science & Technology

SDG 9 Area - Computing Infrastructure

[Link](#)

03. Event Name -Guest Session – Data Science & Analytics in Various Industry Domains

Department - Science & Technology

SDG 9 Area - Applied Analytics in Industry

[Link](#)

04. Event Name -Panel Discussion – Role of AI & ML in Supply Chain Optimisation

Department - Vishwakarma Institutes

SDG 9 Area - Supply Chain Innovation

[Link](#)

05. Event Name -Guest Lecture – Career Paths in Computer Science

Department - Science & Technology

SDG 9 Area - Future Skills & Tech Infrastructure

[Link](#)

D. 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

In year 2024, 32 National level MoUs have been signed with the following organizations:

Title / Partner	Start Date	Nature of MoU / Agreement	Description
Information and Library Network Centre	01 Jan 2024	Academic	Academic collaboration in information and library sciences, enhancing access to knowledge resources and supporting integration of digital learning infrastructure.
BitTrack Foreign Education Visa Consultants	15 Feb 2024	Global Education & Student Mobility	Short-term MoU for hosting a Global Education Fair on campus, providing exposure to international education, applications, and career pathways.
S. G. Engineering Corporation	23 Feb 2024	Consultancy	Six-month consultancy focusing on technical expertise and applied solutions in engineering domains; strengthened industry connect through real-world projects.
Red Chip Solutions	27 Feb 2024	Consultancy	One-year consultancy partnership to enhance IT-based solutions and enable joint problem-solving, facilitating industry-driven knowledge exchange.
UM Pharma Pvt. Ltd.	21 May 2024	Industry–Academia Collaboration	Five-year collaboration in pharmaceuticals offering research, internships, and live industry projects.
Creatosaurus	23 May 2024	Industry–Academia Engagement	Two-year partnership promoting innovation, entrepreneurship, and career readiness in marketing and design domains.
Lifecare Pharma	27 May 2024	Industry–Academia Collaboration	Five-year partnership focusing on pharmaceutical sector research, entrepreneurship, and student-industry synergy.
Ishwa Holidays Pvt. Ltd.	28 May 2024	Industry–Academia Collaboration	Five-year MoU promoting entrepreneurship, career readiness, and practical exposure in travel and tourism.
Timechain Labs	06 Jun 2024	Industry–Academia Engagement	Five-year agreement fostering entrepreneurship, research, and innovation in management and design domains.
Panacea Civil India Pvt. Ltd.	17 Jun 2024	Industry–Academia Collaboration	Five-year partnership offering real-world exposure in civil engineering and infrastructure development.
Carneo Pharma (OPC) Pvt. Ltd.	06 Jul 2024	Industry–Academia Collaboration	Five-year collaboration emphasizing innovation, research, and internships in the pharmaceutical domain.
Global Academy of Law-Tech Education and Research	15 Jul 2024	Academic	Two-year academic collaboration integrating law and technology education through interdisciplinary research.
Cosmosun India Pvt. Ltd.	25 Jul 2024	Industry–Academia Collaboration	Five-year partnership promoting innovation and entrepreneurship in renewable energy and sustainable technologies.

Title / Partner	Start Date	Nature of MoU / Agreement	Description
Grow2Fly Child and Adolescent Counselling Centre	25 Jul 2024	Industry–Academia Collaboration	Five-year collaboration fostering practical training and research in child and adolescent psychology.
Kavita Engineering	09 Aug 2024	Consultancy	Six-month consultancy agreement focusing on applied engineering projects and knowledge exchange.
Dhairyada – Center for Psychological Well Being	14 Aug 2024	Industry Academia Collaboration	Five-year collaboration promoting mental health awareness, training, and research.
eVyaas Learning Pvt. Ltd.	14 Aug 2024	Industry–Academia Collaboration	Five-year partnership advancing digital learning and educational technology innovation.
Foundation for Child Protection – Muskaan	02 Aug 2024	Social Impact Collaboration	One-year collaboration supporting child protection and welfare initiatives through student engagement.
Laksh Psychological Wellness Clinic	03 Sep 2024	Industry–Academia Collaboration	Five-year MoU integrating mental health services with academic programs via practical training.
ComphiNature LittleFlowers Holistic Learning Centre	28 Aug 2024	Industry–Academia Collaboration	Five-year collaboration integrating holistic learning and experiential education.
Govind Milk and Milk Product Pvt. Ltd.	09 Oct 2024	Industry–Academia Collaboration	Five-year partnership promoting research, entrepreneurship, and employability in agribusiness and dairy.
J. Kumar Defence and Aerospace Pvt. Ltd.	10 Oct 2024	Industry–Academia Collaboration	Three-year partnership involving projects and problem statements in defense and aerospace innovation.
Diligent Enterprises, Pune	01 Oct 2024	Industry–Academia Collaboration	Five-year collaboration offering practical training and entrepreneurship opportunities across industries.
Ashoka Business School	01 Oct 2024	Academic Collaboration	Five-year MoU fostering academic exchange, research, and joint training in business education.
The Rewachand Bhojwani Academy	21 Oct 2024	Academic Collaboration	Five-year academic collaboration promoting cooperation in school and higher education practices.
Taledge Solutions Pvt. Ltd., Pune	21 Oct 2024	Industry–Academia Collaboration	Three-year partnership undertaking six projects emphasizing applied technology and management solutions.
Ascent Intellimation Pvt. Ltd.	19 Oct 2024	Industry–Academia Collaboration	Three-year collaboration in industrial automation and smart solutions supporting Industry 4.0 practices.
Feelpixel Design Pvt. Ltd.	04 Oct 2024	Industry–Academia Collaboration	Three-year engagement promoting creativity & innovation in visual communication & design.

Title / Partner	Start Date	Nature of MoU / Agreement	Description
Infosys Limited	08 Aug 2024	IAcademic Collaboration	Three-year MoU integrating academic training with Infosys expertise through skill-building initiatives.
Medico Legal Society of India	09 Dec 2024	Academic & Professional Collaboration	One-year collaboration advancing medico-legal education and research.
Creative Skills Motion Craft Pvt. Ltd.	17 Dec 2024	Industry–Academia Collaboration	Five-year partnership supporting innovation and skill development in creative and media industries.
Bloggerscon Vision Pvt. Ltd.	26 Dec 2024	Industry–Academia Engagement	One-year MoU fostering collaboration in digital media, content creation, and entrepreneurship.

In year 2024, 8 International level MoUs have been signed with the following organizations:

Partner Institution	Start Date	End Date	Duration
Asian Institute of Technology (AIT), Thailand	29-01-2024	28-01-2029	5 Years
Universidad Maria Auxiliadora (UMA), Peru	23-01-2024	22-01-2027	3 Years
National Formosa University (NFU), Taiwan	26-01-2024	25-01-2029	5 Years
American University, Washington, D.C., USA	24-01-2024	23-01-2029	5 Years
The Pennsylvania State University, USA	09-07-2024	08-07-2029	5 Years
Hochschule Aalen (Aalen University of Applied Sciences), Germany	19-09-2024	18-09-2029	5 Years
Washington University of Science and Technology (WUST), Virginia, USA	06-06-2024	05-06-2026	2 Years
TU Berlin Summer & Winter School (TUBS GmbH), Germany	17-09-2024	16-09-2026	2 Years

E. 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.

F. 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: [Research at VU website](#)

Key Initiatives to Strengthen the Research Culture

- Director Research and Director Innovation, IPR & Entrepreneurship have been appointed for policy-making and initiating various R&D-related activities.
- 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.
- 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.
- Based on individual expertise, every faculty is encouraged to generate funds through consultancy/ research projects/training/patents.
- 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.
- The University has established Centres of Excellence (COE) in identified thrust areas by collaborating with International Universities and Industries.

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.

Link: <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:

Fees for research publications in conferences and/or journals

- Expenses incurred on travelling, accommodation, and food during Conferences, Paper Presentations and/or Field Activities
- 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.

Link: <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:

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

Link: <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.

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

Publications in 2024

In the year 2024, Vishwakarma University achieved a remarkable milestone by producing more than 200 research publications across diverse domains. This accomplishment reflected not only the academic rigor of its faculty and students but also the institution's unwavering commitment to fostering a vibrant culture of inquiry and innovation.

The breadth of these publications—spanning engineering, management, law, design, and allied sciences—demonstrated the interdisciplinary ethos that VU consistently promotes. By encouraging collaborations within and across disciplines, the university ensured that its research addressed both theoretical advancements and real-world challenges, thereby contributing meaningfully to society and industry.

Beyond the numbers, this strong publication record stood as evidence of VU's research-oriented ecosystem. Faculty members and students actively engaged in national and international conferences, peer-reviewed journals, and collaborative projects, reflecting a commitment to knowledge creation and dissemination. The university's emphasis on research mentoring, access to resources, and strong academic-industry linkages further strengthened this culture.

This achievement underscored VU's role as a knowledge-driven institution that not only imparts education but also generates new knowledge, aligning with the spirit of SDG 9: Industry, Innovation, and Infrastructure. The 200+ publications of 2024 highlighted the university's vision of nurturing a community where research and innovation are integral to academic life, paving the way for sustainable growth and societal impact.

Link to University publications dataset: <https://research.vupune.ac.in/2024>

G. Transforming Ideas into Reality - Patent Filing

Vishwakarma University has demonstrated a strong commitment to innovation and applied research through its patenting ecosystem. The University has filed multiple patents in areas spanning Science & Technology and Pharmacy, partnering in many cases with industry collaborators. These patents include both granted and published applications, reflecting continuous innovation, technological development, and the translation of research into protectable intellectual property.

Patent Title	Area / Domain	Application No.
VSTP (Vertical Sewage Treatment Plant)	Environmental Technology	202121043909
Freeze Technology	Environmental Engineering / Water Management	202121043907
MOMCV (Modular Compact System)	Environmental Engineering	202121044823
System and Process for Digital and Automated Hospitality	Automation / Smart Systems	201921046384
System and Process for Intelligent Waste Management in Vehicles	Mobility / Waste Management	201921046386
System and Process for Digital and Automated Mobility	Smart Mobility Solutions	201921046385
Miniaturized Energy Harvester for Human Shoe Applications	Renewable Energy / Wearable Technology	202221003245
Automated Implantable Cardiac Monitoring Device for Arrhythmia Detection	Biomedical Engineering	202221032500
Drawpic: Distributed Read-Write Management for Containerization	Computer Science / Cloud Computing	202321038924
Potable Water Treatment and Dispensing System	Environmental Engineering / Water Technology	202221032498
Cooling and Heating in Household Water Purification Systems	Environmental Technology	202221032499
Magneto-Rheological Torsional Vibration Damper	Mechanical Engineering	202421065704
Device for Localised Cooling Using Composite Structures	Thermal Engineering / Material Science	202421016393
Linear Actuator-Based Positive Displacement Fluid Pumps	Mechanical Engineering / Fluid Dynamics	202421065705
Automated Public Lighting System using Solar Power and Motion Detection	Renewable Energy / Smart Cities	202421065703
Secure and Interoperable Electronic Health Record Management	Health Informatics / Digital Health	202421038708
Automated Accident Prevention System	Automotive Technology / Safety Systems	202321038925
NASVSTP	Advanced Sewage Treatment Plant	202121043877
MARVSTP	Advanced Sewage Treatment Plant	202121043910
Smart Cooling Shoe (MIDAS)	Wearable Technology	201921046388

Patent Title	Area / Domain	Application No.
Artificial Analytical Intelligence (Griffin)	Artificial Intelligence	201921046387
Nano Lipid Carriers for Hypertension	Pharma / Drug Delivery Systems	202321060446
Compositions for Cholesterol and Triglyceride Management	Pharma / Drug Development	202321060447
Nanostructured Lipid Carriers (NLCs) Fabrication Method	Pharma / Nanotechnology	202421016393
Cosmetic Composition with Rudraksha & Butterfly Pea Extracts	Cosmeceuticals	202321058439
Synergistic Antioxidant Compositions for Anti-Photoaging Applications	Cosmeceuticals	202321058439
Cost-Effective Cattle Health Monitoring System using RFID & Sensors	AgriTech / IoT Applications	202421039402
Shivaji Maharaj: A Journey Through History – Educational Board Apparatus	Educational Technology / Cultural Learning	202421039401
Precision-Engineered Double-Locking Fabric Fastener	Industrial Design / Material Innovation	202421038709

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

Conclusion

The year 2024 at Vishwakarma University demonstrated a strong and multidimensional alignment with SDG 9: Industry, Innovation, and Infrastructure. A wide spectrum of initiatives – ranging from AI/ML workshops, data analytics training, and robotics automation sessions to industrial visits, architectural exhibitions, entrepreneurship fests, and innovation summits – collectively showcased the University's commitment to fostering innovation-driven ecosystems.

By clustering activities under workshops & training, industrial exposure, innovation fests, guest lectures, and project showcases, the university created meaningful bridges between academia and industry. These efforts not only enhanced student readiness for emerging technologies and industrial practices but also nurtured a culture of applied research, design thinking, and entrepreneurial orientation. Overall, the calendar of events under SDG 9 illustrates how VU is systematically transforming education into a hub for technological advancement, sustainable industrial practices, and future-ready infrastructure development. This holistic integration of industry linkages, innovation culture, and applied learning reinforces VU's role as a catalyst in shaping resilient, sustainable, and inclusive growth for society at large.



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