



## Performance of the Institution in one area distinctive to its vision

### **VIT as a Career Institute**

Vishwakarma Institute of Technology, located in Pune, India, is committed to promote a culture of research and innovation. Our faculty members are actively involved in cutting-edge research projects and have received funding from prestigious organizations such as ISRO, DST, AICTE, RGSTC, and various industries. As part of our commitment to faculty development, we offer opportunities such as industry internships, collaborative research projects, PhD encouragement, knowledge creation facilitation, training, and various faculty competitions. Additionally, we encourage each faculty member to use their unique expertise to explore new avenues for research. We encourage each faculty member to leverage their individual expertise to generate funds through consultancy, research projects, training, and patents. This helps to support and promote the institution's research initiatives while also providing opportunities for faculty members to advance their professional growth and development.

### **Initiatives**

- Faculty and students of our Institute are active in evolving the research culture with focus on Fundamental and Applied Research.
- Through, Research Forum, R&I activities are promoted, encouraged and appraised. The Cell of the focuses on the research outputs such as publications, patents and start-ups based on project work.
- Collaborative and experiential learning is achieved through Project based and project centric learning wherein students develop solutions for complex engineering problems.
- Faculty working on for cutting edge research projects funded by ISRO, DST, AICTE, RGSTC etc. and Industries which resulting Institute getting crucial head start in the competitive world.
- Make students future ready rather than industry ready. Future ready means they are competent enough to take challenges and find best solutions to complex problems. Solving highly complex problems requires that students have 21st century skills
- By bringing real-life context and technology to the curriculum through a PBL approach, students are encouraged to become independent critical thinkers, and lifelong learners. Here the role of Teachers as facilitator and motivator who exchange ideas and communicate with stakeholders, all the while breaking down invisible barriers such as isolation of the classroom



- Focus on students and their interests, it tailors to the intellectual resources and experiences of diverse students and is responsive to culture, race, SES, and gender.

### Project based and Project Centric Learning:

In our Institute, we are having concept of Engineering Design and Innovation projects and all students must complete one project in this category in a group of 4 to 5 students in each group. While selecting EDI projects students select domain areas which are socially relevant. Identified 25 different domain areas like healthcare, defence, security, smart city, water, energy, pollution etc. Based on that students have selected technology and tools needed for completion of the project. Now, our students are ready with their products and validated designs such that they can convert it into actual products in due course of time.

| UG Research and Outcome |      | Publications   |     |
|-------------------------|------|----------------|-----|
| Student strength        | 5798 | Scopus Indexed | 347 |
| EDI Projects/year       | 1456 | SCI Indexed    | 38  |
| SDP Projects /year      | 2380 | Other          | 98  |
| Course Project          | 5168 | Patents        |     |
|                         |      | Published      | 32  |
|                         |      | Granted        | 39  |
|                         |      | Filed          | 16  |

Students have designed and implemented around 1456 EDI projects, 2380 SDP projects, 5168 Course projects, 400 Major and 55 Research projects per year.

### Major Outcomes of the research work

- **2243** research articles in various Journal and reputed international conferences (In Last 5 Years)
- Research Grant received from Government and Non-Government organisations: More than **5.03 Cr** (2018-till date)
- Revenue generated from consultancy and corporate training: **8.73 Cr** (2018-till date)
- Patents published in last 5 years: 161 and patents granted: 69.
- Organised **310** workshops, seminars training programs and conferences.



### **Awards won by students in various research and innovation activities**

- First Prize MHRD - Samadhan Hackathon. The participants in this challenge will design, simulate and develop such measures that can be made available to the government agencies, health ke services, hospitals and other services for quick solutions to the Coronavirus epidemic and other such calamities.
- First Prize project competition organized by IEEE and AISSMS IIOT Pune
- First Position in Wie Hack 2.0 an all women 36-hour online hackathon
- First prize Ideathon - NIE IEEE Student Branch
- First Prize in International Virtual Design Course on e-Tourism, organized by Binus University, Jakarta, Indonesia.
- First Prize in Abhikalp Competition, organized by SPPU Pune
- First runner up in One Million Seconds Non-Stop Online Hackathon organized by the Telangana State Innovation Cell, Telangana Information Technology Association, and Publishsutra
- Second Prize Hackathon conducted by Principal Global Services
- Second Prize at CAS Open Day 2020 Data Science Hackathon conducted by IISc Bangalore
- Runner up in 2 days online Hackathon - Robo Hack
- Top 15 winning team in HackTech Covid19
- Second prize HackRx by Bajaj Finserv
- Second Prize at Technospark - Competition PCCOE, Pune

### **Beneficiaries**

People from rural areas, Farmers, Gram-panchayat, elderly people, Healthcare workers, Municipal Corporations, like Pune, Kolhapur etc., animals, Food, and water distribution system

### **Student Career Counselling and guidance**

Student Career counselling and guidance also play a crucial role in the development and success of engineering students. It assists in maximizing their potential, making informed decisions, and navigating their professional journey effectively. It plays a vital role in shaping successful engineering careers by providing personalized support, resources, and mentorship. Some essential functions and benefits are



1. Exploration of Career Options.

2. Personal and Professional Development.

Students are given updates on the latest trends, industry demands, job market conditions, and technological advancements through different activities such as seminars, webinars and awareness programs. It helps to set realistic and achievable career goals. Anxieties and challenges that students may face during their academic journey are also addressed. Guidance is given to explore alternative careers, understand the requirements for further instruction, and make informed decisions about advanced degrees or certifications.

Following activities conducted for students helps them to maximize their potential, to make informed decisions, and to navigate their professional journey effectively. It also supports shaping successful engineering careers by providing personalized guidance, resources, and mentorship.

NTU India Connect Study Programs Webinar, Awareness session Hof University Germany Study Programs, Nirman : Youth for purposeful life - by Amrut Bang, CSAC Civil Services Aspirants Club, How To Crack GATE, Opportunities in Indian army forces  
 Blockchain Technology, UPSC Syllabus - Developing Study Habits, Webinar on mental Health, Photography, GRE and TOEFL, UPSC/MPSC preparation, Enhance your outreach with LinkedIn, UX and UI Design for Engineers, Women's Week Talk, Awareness programme about cooperative sector for youth of India – VAMNICOM.

Table shows the number of students appeared in state/ national/ international level examinations during the last five years.

(eg: IIT/ JAM/NET/SLET/GATE/GMAT/CAT/GRE/IELTS/TOEFL/Civil Services/State government examinations)

| AY      | Total Students | NET | SLET | GATE | GMAT | CAT | GRE | JAM | IELTS | TOEFL | Civil Services | State govt | Other exams |
|---------|----------------|-----|------|------|------|-----|-----|-----|-------|-------|----------------|------------|-------------|
| 2018-19 | 947            | 137 | 137  | 51   | 4    | 15  | 43  | 4   | 17    | 24    | 10             | 3          | 5           |
| 2019-20 | 967            | 181 | 181  | 54   | 3    | 22  | 54  | 1   | 12    | 30    | 9              | 2          | 2           |
| 2020-21 | 1151           | 90  | 3    | 23   | 1    | 12  | 31  | 90  | 10    | 20    | 90             | 1          | 90          |
| 2021-22 | 1365           | 113 | 113  | 26   | 1    | 15  | 47  | 113 | 11    | 18    | 113            | 113        | 113         |
| 2022-23 | 1543           | 135 | 135  | 32   | 1    | 16  | 24  | 135 | 35    | 17    | 5              | 135        | 7           |



Activities and Events Conducted by the Students Career Counselling & Guidance

| Year 2022-23  |            |               |   |
|---|------------|---------------|---|
| Activity Name   | Year       | Student Count | Resource Person   |
| NTU India Connect Study Programs Webinar                        | 20/08/2022 | 39            | Ms. Manasi Phute  |
| Webinar Awareness session Hof University Germany Study Programs | 21/8/2022  | 44            | Shubham Dandawate and Shivam Agharkar   |
| Nirman: Youth for purposeful life - by Amrut Bang               | 21/8/2022  | 89            | Amrut Bang Vishwasidhdi   |
| CSAC Civil Services Aspirants Club                              | 09/10/2022 | 67            | IAS.Mandar Patki, IAS Yogesh Kapse  |
| How To Crack GATE   | 14/9/2022  | 45            | Vishwasidhdi  |
| Opportunities in Indian arm forces                              | 15/9/2022  | 65            | GP Captain Sanjay Pethkar, Indian Air Force Pilot Selection Board Assessor Armed forced trainer |
| Blockchain Technology   | 27/9/2022  | 55            | The Department of Information Technology, VIT   |
| UPSC Syllabus - Developing Study Habits                         | 11/08/2022 | 67            | Civil Services Aspirants Club at VIT Pune Adinath Dhamdhare, COEP.                              |
| Introduction - Mental Health -Webinar                           | 15/11/2022 | 47            | Dr. Vinay Barhale, Psychiatrist, Shanti Nursing Home, MBBS, DPM, MD(PSYCHIATRY)                 |
| Webinar on photography  | 15/11/2022 | 45            | Ashish Joshi Photographer   |
| Zoom meeting with Former Principal of VIT.                      | 11/12/2022 | 77            | Prof. M. R. Khadilkar   |
| Webinar on GRE and TOEFL by ETS 18th November 2022 at 5pm       | 18/11/2022 | 75            | ETS Team.   |
| Invitation to connect with the campus engagement program        | 12/03/2022 | 27            | VIT Staff. Dr. Swati Shilaskar Dean SCCG  |
| आठवणी एक कोलाज  | 01/08/2023 | 49            | Vinit Kondejlar   |
| Seminar on how to prepare for UPSC/MPSC competitive exams       | 01/11/2023 |               | Adv. Sunny Mankoskar. Unique Academy  |



|  |            |     |   |
|--|------------|-----|---|
| Japan Career Program for First year and Second Year Students               | 14/1/2023  | 87  | Japan India Woman's Forum   |
| Webinar: Enhance your outreach with LinkedIn                               | 30/01/2023 | 121 | LINKDEN   |
| GRE Masterclass – Sentence Equivalence                                     | 31/1/2023  | 67  | Tofel, GRE ETS  |
| ALUMNI MEET 23   | 25/2/2023  | 190 | VIT Pune.   |
| UX and UI Design for Engineers.  | 16/3/2023  | 150 | Chitrani Dhole, Director and Co-founder Ogee Studio India Private. Ltd.                                   |
| Women's Week Talk with Prasha Dutra  | 20/03/2023 | 156 | Prasha Dutra, confidence coach, Forbes Coaches Council member, and CEO of Believe In Your Brilliance LLC. |
| Awareness programme about cooperative sector for youth of India - VAMNICOM | 29/03/2023 | 128 | VAMNICOM  |

It has been observed that many finance based companies increasingly number on campus such as Dolat Capital, UBS etc. Also, we found that many products based and core companies in respective branches are increasingly coming for recruitment and hiring good numbers of students. Due to efforts applied to research culture and initiatives taken for student career counselling and guidance, new or recently started companies are coming to the VIT campus to recruit our students from various branches. BlackRock, Dolat Capital, EPAM, Samsung, JTP, BP Singapore, Torinit Technologies, Tally solutions, Workday, BNY Mellon, Kaizen, ABInBev GCC, ITANTA, Pricelabs, Synopsys, Source,one, Sonata Software, Findability Science, Miko,IIFL Livlong, Galaxy Surfactants Pvt ltd, Markytics consulting, Zinrelo.

VIT has transformed into a career institute by producing highly employable graduates. Different initiatives helped foster a culture of innovative research and emphasized career development and industry relevance.

Prestigious award and trophy for 'Excellence in Enabling Research Ecosystem' given by Federation of Indian Chambers of Commerce & Industry (FICCI). This is the first award constituted by FICCI for the organizations demonstrating excellence in establishing the Research Ecosystems with Innovations, Best Practices, and Excellence in Higher Education.



***Certificate Awarded to Vishwakarma Institute of Technology, Pune for Excellence on Enabling the Research Ecosystem***



***VIT Team Receiving the Winning Trophy for Excellence on Enabling the Research Ecosystem by the Hands of Dr. Bhagwat Karad, Hon'ble Mister of State for Finance, Government of India at IG Stadium, New Delhi on 17<sup>th</sup> Nov 2022***

VIT won the Making Quality Happen (MQH) 2022 Award with First Rank based on the topic 'Innovation Centric Teaching Learning'. Award was given by the Chamber of Commerce and Industry (IMC) Ramkrishna Bajaj National Quality Award (RBNQA) Trust in the Event held during 1<sup>st</sup> to 4 Nov 2022.



***Award was given by the Chamber of Commerce and Industry (IMC) Ramkrishna Bajaj National Quality Award (RBNQA) Trust***