VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

K. T. Marg. Vasai Road (West), Dist. Palghar, Maharashtra – 401202.

College Brochure 2024-25

- Computer Engineering
- Computer Science & Engineering (Data Science)
- Information Technology
- Artificial Intelligence & Data Science
- Mechanical Engineering
- Electronics & Telecommunication Engineering
- Civil Engineering
- Electronics Engineering (VLSI Design & Technology)
- M. E. Civil (Structural Engineering)

Late Padmashri H.G. Vartak alias Bhausaheb Vartak
Founder President of Vidyavardhini
(1914 - 1998)

Late Smt. Tarabai Vartak
Former President
(1926 - 2008)
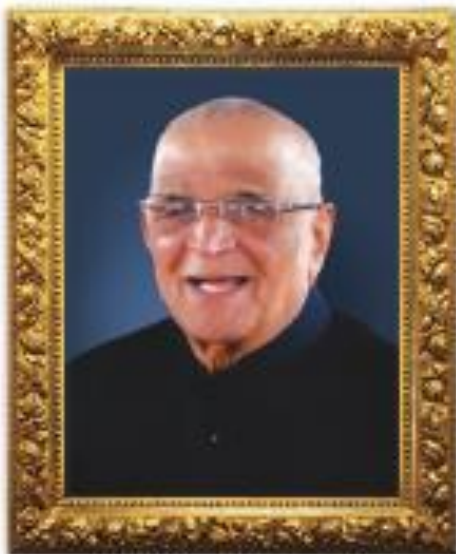
Late Shri. Prataprai Khokhani
Former President
(1933 - 2018)

VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

About VCET

Vidyavardhini means a body committed to enhancement of knowledge. Vidyavardhini was established as a registered society in 1970 by late Padmashri H. G. alias Bhausaheb Vartak for the noble cause of education in rural areas. Vidyavardhini's College of Engineering and Technology (VCET), Vasai is located on the sprawling campus of Vidyavardhini, spread over an area of 12.27 acres. It is a, two-minute walk from Vasai Road (W) Railway Station and S.T bus stand.

Vidyavardhini Society received approval from AICTE to start the new college of Engineering & Technology with effect from July, 1994. The college is affiliated to the University of Mumbai for the four-year degree program leading to the degree of Bachelor of Engineering. VCET has Four Branches permanently affiliated to University of Mumbai, "NAAC" accredited for five years from 2024 and NBA Accreditation from 2022-2025.

Vision

To be a premier institution of technical education, always aiming and becoming a valuable resource for industry and society.

Mission

- To provide technologically inspiring environment for learning.
- To promote creativity, innovation and professional activities.
- To inculcate ethical and moral values.
- To cater personal, professional and societal needs through quality education.

Sr. No.	Name of Branch	Year of Establishment	Sanctioned Intake	Seats to be filled through CAP	Seats to be filled at Institute Level	
UNDERGRADUATE PROGRAM (UG)						
01	Mechanical Engineering	1994	60	54	06	
02	Electronics & Telecommunication Engineering	1994	60	54	06	
03	Computer Engineering	1999	180	144	36	
04	Information Technology	1999	60	54	09	
05	Civil Engineering	2013	60	54	06	
06	Computer Science & Engineering (Data Science)	2020	180	153	27	
07	Artificial Intelligence & Data Science	2020	60	51	09	
08	Electronics Engineering (VLSI Design & Technology)	2023	60	57	03	
POST GRADUATE PROGRAM (PG)					Non-Sponsored	Sponsored
01	M. E. Civil (Structural Engineering)	2022	24	22	01	01

VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

Eligibility Criteria

Eligibility for admission will be as specified in the Information Brochure published by CET Cell. More Details visit website: **https://cetcell.mahacet.org/**

Admission Rules

Institute Level Seats:

All the rules given in the State Common Entrance Test Cell Information Brochure and website http://cetcell.mahacet.org/ are applicable for above said admissions except those specifically mentioned below.

A. Branch wise Seat Allocated at Institute Level Admission:-

● For filing the Institute Level Seats, an advertisement with schedule will be given in the following any two newspapers: 1) Indian Express & Loksatta /   2) Narvir Chimaji Daily

● The application forms for admission to the Institute level seats are different from those for the seats allotted under CAP. For Online registration for Institute Level Admission and uploading of required documents click on college website www.vcet.edu.in

● The following original documents are required to be submitted by the candidates at the times of seeking UG / PG admission:

1. S.S.C & H.S.C. /Diploma* / Degree* Marksheet
2. CET 2024* / JEE (Main) 2024*/GATE* 2024 Score Card
3. H.S.C.* / Degree* Leaving Certificate   4. Eligibility Certificate, if necessary
5. Certificate of Indian Nationality (if not mentioned in Leaving Certificate)
6. Copy of Receipt cum Acknowledgement from Scrutiny Centre
7. Domicile Certificate

Fee structure

The fee for the year 2024-25 is prescribed by Fees Regulations Authority (FRA).   The detail of the fee to be paid by the candidates is as indicated below.

PARTICULAR	Fees for UG Engineering	Fees for PG Engineering
Tuition Fee	108619.00	98921.00
Development Fee	14881.00	11079.00
University Exam Fee	2476.00	3571.00
Amartya Shiksha Yojana & Stud. Accident Insurance Policy + University Yuva Raksh Yojana	826.00	359.00
Caution Money (Refundable)	500.00	500.00
University Gymkhana Fee	400.00	400.00

VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

PARTICULAR	Fees for UG Engineering	Fees for PG Engineering
University Enrollment / Eligibility Fee	200.00	200.00
University e - Suvidha Fee / e - Charges	60.00	60.00
University Sport & Cultural Activity Fee	60.00	60.00
University Vice Chancellor Fund	20.00	20.00
University Disaster Relief Fund	10.00	10.00
University Fee	50.00	50.00
Admission Process Fee	1000.00	1000.00
TOTAL	**129102.00**	**116230.00**

Cancellation of Admission:

- The candidate should have taken admission by paying necessary tuition and other fees and should have submitted original certificates before he / she applies for cancellation. In case a candidate fails to submit any of the original documents within 4 working days after the date of allotment of a seat, the admission shall be automatically cancelled.

- The refund of fees will be governed by CET Cell guidelines published in Information Brochure. For more details visit website: https://cetcell.mahacet.org/

ACTION AGAINST RAGGING:

Maharashtra Prohibition of Ragging Act 1999 which is in effect from 15th May 1999 has the following provisions for Action against "Ragging":

a) Ragging within or outside of any educational institution is strictly prohibited.

b) Whosoever directly or indirectly commits, participates in, abets, or propagates ragging within or outside any educational institution shall, on conviction, be punished with imprisonment for a term up to 2 years and / or penalty which may extend to ten thousand rupees.

c) Any student convicted of an offence of ragging shall be dismissed from the educational institution and such student shall not be admitted in any other educational institution for a period of five years from the date of order of such dismissal.

Anti Ragging Committee

Chairman	Members	
Dr. Rakesh Himte	Mrs. C. V. Sonarkar	Mr. Sainath Patil
	Mrs. Kanchan Sarmalkar	Mr. Ashok Kamble (Inspector)
	Mr. Abhay Jadhav	Mr. Sanjeev Vedpathak

Department of Computer Engineering

About the Department:

The Department of Computer Engineering was established in the year 1999. It offers an undergraduate program in Computer Engineering with a current intake of 180 seats. The Department was accredited by the National Board of Accreditation (NBA) from 2012–2015, reaccredited in July 2022, and is permanently affiliated with the University of Mumbai. It is committed to fostering excellence in education, research, and industry collaboration, ensuring that our graduates are not only technically proficient but also socially responsible global citizens.

Vision

To evolve as a center of excellence in the field of Computer Engineering to cater the industrial and societal needs.

Mission

- To provide quality technical education with the aid of modern resources
- To inculcate creative thinking through innovative ideas and project development
- To encourage life-long learning, leadership skills, entrepreneur skills with ethical and moral values

Infrastructure:

State-of-art laboratories with high-end PCs

IT Infrastructure:

- HP E ProLiant DL380 Gen10 8LFF 2U Rack Server
- HP DESKTOP 600G- i5 : 100
- HP DESKTOP 600G-i5/4 GB NVIDIA GPU: 25
- Internet Lease line : 1224 Mbps

Faculty Information:

- 21 well qualified and experienced faculty
- 7 faculty members with Ph.D. degree, 5 pursuing Ph.D.

Industry Connect Activities:

- Student Development Programs
- Memorandum of Understanding (MoU)
- Internships
- Guest Lectures
- Industry Visits
- Industrial projects

Research Publications and MoUs:

- Journal and Conference Publications: 100+
- Patents and Copyrights:30+
- Books and Chapters: 20+
- MoUs: 10+

Professional Society/Chapters and Students Clubs:

- Computer Society of India
- Android Development Club
- Microsoft Learn Students Club
- Code Chef Chapter BitB yte Go
- WebX Meta Club

Newsletter and Magazine:

- Department Newsletter, e-Magazine, and wall-magazine published every semester/year

Industry Collaboration projects undertaken:

- BEST, Mumbai
- 3iology Delightful Digital solutions
- Software AG, Mumbai
- Intel Corporation, Poland
- HKI Infotech, Vasai
- Chetan Dryfruits, Vasai
- Fudiciary Capital, Mumbai
- IXL Center Inc., Boston (Mumbai Branch)
- Reliance Infrastructure Ltd., Mumbai
- Persistent System Ltd., Mumbai
- Digital Dojo OPC Pvt. Ltd., Mumbai
- Autospring Pvt. Ltd., Thane
- Techcyrptors, Mumbai
- Spares Fusion, Mumbai

Major Achievements by our students:

- HACKATHON winner at K.J. Somaiya College
- ICPC Asia Regional Finalist
- Winner of AVISHKAR-2024 at SCOE , Navi Mumbai
- Runner-up in Ace of Hacks- Hackathon at A C Patil College, Kharghar
- Runner-up in VEGA 2024 Hackathon at Shah & Anchor Kutchhi Engineering College
- First Prize in HACKANOVA 3.0. at TSEC, Mumbai
- Finalist at SIH 2023, Poornima University, Jaipur
- Gold Medallist in Rope Skipping, at Krida Mahakumbh, Mumbai
- Third prize in AeroGCS Global Competition at Sandip University, Nashik
- Runner-up in Robomaze at SJCE, Palghar
- Winner of Tech-A-Thon at MCC College Mulund
- Gold medalist for team championship, silver for overall individual championship and bronze for individual pole Mallakhamb championship in Khelo India youth games in Trichy, Tamilnadu
- First prize in Bizzquiz at St. Francis College of Management, Mumbai
- 1st prize in Carrom at JES College of Commerce Science and IT, Mumbai
- Winner in District Level Competition, at Maharashtra State Innovation Challenge
- Runner-up in LogiTHON 2024 at Datta Meghe College of Engineering, Airoli
- Runner-up in Hack With Infy 2018
- Finalist in SIH 2018 at Amrita University
- Runner-up in Err_404 2.0 Hackathon at M.H. Saboo Siddik College of Engineering
- 1st prize in Chess at SPCE, Mumbai

Our Impact:

Over the years, our graduates have made significant contributions to the field of computer engineering, leading groundbreaking research initiatives, founding successful startups, and driving innovation across various industries. Whether it's developing cutting-edge algorithms, designing efficient hardware systems, or leveraging technology for social good, our alumni are making a difference around the globe.

Department of Computer Science and Engineering (Data Science)

About the Department:

VCET is a renowned institution known for its dedication to academic excellence. In the academic year 2020-21, the Department of Computer Science and Engineering (Data Science) was established with an initial intake of 60 students. Since then, the department has seen a steady growth in capacity, now accommodating up to 180 seats as of 2023-24. With a focus on cultivating a dynamic and inclusive learning environment, the Department of Computer Science and Engineering (Data Science) provides students with the knowledge, skills, and practical experience necessary to excel in the continually evolving field of Data Science.

Vision

To be a front-runner in future tech and data-driven innovation through an interdisciplinary excellence in Computer Science and Engineering with a focus on Data science.

Mission

- To provide an environment for learning data science, fostering expertise and innovation.
- To promote interdisciplinary innovations in emerging data technologies.
- To foster quality education, ethical values, meeting personal, professional, and societal needs on holistic level.

Why CSE-DS?

- Integrated Curriculum - Blends computer science and data science modules for a comprehensive experience.
- Versatility for Future Roles - Enables diverse roles, from software development to data-driven decision-making.
- Career Opportunities - Expands career paths in high-demand areas such as data analysis, ML and AI.
- CSE(DS) Computer Science and Engineering (Data Science) - Data science entails exploring data with the goal of uncovering valuable insights across various domains such as healthcare, finance, marketing, research, and business operations. Drawing from mathematics, statistics, artificial intelligence, and computer engineering, data science aims to analyze large datasets and derive valuable insights applicable across various contexts. -

Infrastructure:

-Labs- AIML, Data Analytics and Deep Learning Labs

-CRT & AMCAT for enhancing placement opportunities.

-Classrooms- Classrooms with A/C and Projector facilities

Department Highlights:

- No. of Ph.D. – 3 Faculties are pursing Ph.D.

- Average Experience – Faculty members, averaging over 10 years of teaching, offer expertise in Data Analytics, AIML, and other domains.

- Scholarly Publications– one patent has been published in Dec 2023, 2 books published in Techneo Publications, 9 paper published in international journals like IEEE, SIRJANA Journal, ICSTEMSD, ICATIA in 2024

- Code-o-Fiesta Hackathon - An event designed to foster creativity and problem-solving in the realm of technology, organized by CSE (DS).

- Product Vidya Product Showcase- A showcase of innovation by CSE (DS). Witness the ingenuity of students as they unveil their creative projects.

Professional Societies:

- Computer Society of India (CSI)- Professional association aimed at advancing the field of computer science through networking, knowledge sharing, and skill development.

- German Club- Educational opportunities for teaching the German language and culture, fostering cross cultural understanding and language proficiency.

- IEEE Organization- Prestigious global organization dedicated to advancing technology through conferences, publications, and standards development.

Newsletter "DataCite" Published in April 2024

MoU-

1. Techq Konnect Technology Pvt. Ltd.
2. S. S. Dies Pvt. Ltd.
3. Cloud Counsekage Pvt. Ltd.

Student Achievements:

- 2 National-level sports medals

- 1 Paper Published in Springle Borad - Kazakhstan Conference 2024

- 15 students attended GATE & GRE in 2023-24

- 25+ students are placed in top companies with highest package of 7.5 LPA.

- 60+ students completed their internships Active participation in Hackathons and extracurricular activities.

- 1st prize in TECHBLITZ '24

- 2nd prize in carrom doubles IISM, Andheri

- Six groups won first prize or runner-up in VNPS 2024.

- Four groups won first prize and one group won runner-up in Oscillation 2024

Department of Information Technology

About the Department:

The Department of Information Technology was established in the year 2000. It is accredited by National Board of Accreditation (NBA) from July 2022 to June 2025 and is affiliated to University of Mumbai. It aims at developing technical and experimental skills in students along with logical thinking so as to prepare them for competent, responsible and rewarding careers in IT profession. We strive to achieve the aim with young, dynamic and highly qualified faculty members, state of art infrastructure and Industry-Institution Interaction. Furthermore, the department has laboratories which are well equipped with latest configuration machines, high speed internet, Wi-Fi and legal licensed software. Modern aids such as LCD, Educational CDs make classroom teaching more interesting.

We encourage extra-curricular activities as they help in developing the student's personality which ultimately enhances the future. It is our constant endeavor to shape personalities who will contribute positively to the world around them.

Vision

To foster and maintain excellence by orienting the captivating minds of the aspiring engineers towards IT- driven technological solutions for the benefits of the society.

Mission

- To provide quality education, by employing best and diversified teaching practices and tools, and teaching beyond the confines of the university syllabus.
- To keep students abreast with latest technological advancements in the market.
- To prepare students to troubleshoot and solve IT system problems.

Why Information Technology?

- Information technology plays a prominent role in business and provides a foundation for much of our current workforce. From communications to data management and operational efficiency, IT supports many business functions and helps drive productivity.
- From a career perspective, information technology is largely responsible for much of our business operations and spans nearly every industry. From healthcare to food services, manufacturing to sales, and beyond, we rely on IT to help connect us to others, store and manage information and create more efficient processes.

Infrastructure:

1) Network Communication Lab	2) DevOps Lab
3) Data Science Lab	4) IOT Lab
5) Programming Lab	6) Project Lab

Department Highlights:

- Department has four Ph.D. faculty members, and five faculty members are pursuing.

- We have experienced members of faculty with an average experience of over 10 years.

- Faculty members have published research papers, books, and copyrights, highlighting innovative contributions to technology and society

- Professional society we have CSI - Computer Society of India

- ITECH is the Departmental magazine & newsletter committee, the articles of ITECH are published on the VCET Website.

- Department has 10 active MOUs with industries and institution. This helps our students to get practical exposure, internships, industry-based project, and placement.

Students Achievements:

- Winner at Smart India Hackathon 2023 at Nagpur Nodal Center

- 2nd Prize at 17th Avishkar

- Winner at Coherence 1.0 titled "Social Media Dashboard" for Influencers organized by VCET

- Second prize at Mumbai University inter zonal wrestling competition 65kg

- Consolation Prize at 18th Avishkar

- Runner-up at Avalon Innov8 2.0 titled "Interractive Civic Engagement Toolkit" organized by Terna College of Engineering

Department of Artificial Intelligence and Data Science

About the Department:

The Department of Artificial Intelligence and Data Science at VCET, established in 2020 with an initial intake of 30 undergraduate students, expanded to 60 seats in the 2021–22 academic year due to heightened interest. Our department is dedicated to fostering excellence in education, advancing research, and enhancing industry partnerships. We aim to nurture visionary individuals by equipping students with the necessary skills to excel in the dynamic fields of AI and Data Science. Through a cutting-edge curriculum and hands-on experience, our graduates emerge as technically proficient and socially responsible global citizens, poised to lead the way in innovation and technological advancements.

Vision

To foster proficient artificial intelligence and data science professionals, making remarkable contributions to industry and society.

Mission

- To encourage innovation and creativity with rational thinking for solving the challenges in emerging areas.
- To inculcate standard industrial practices and security norms while dealing with Data.
- To develop sustainable Artificial Intelligence systems for the benefit of various sectors.

Infrastructure:

- State-of-art laboratories with high-end PCs
- HP 400 G9 Desktop i5: 60, HP 280 G5 Desktop i5: 20
- Internet Lease line : 1224Mbps

Faculty Information:

- 9 well qualified and experienced faculty
- 1 faculty member with Ph.D. degree, 2 pursuing Ph.D.

Industry Connect Activities:

- Excelling the Code Skills series of Student Development Programs
- Expert Sessions
- Memorandum of Understandings (MoU)
- Industry Visits
- Intra and Industrial Internships
- Industrial projects

Research Publications and MoUs:

- Journal and Conference Publications: 70+
- Reference Books: 2 (Chapman and Hall CRC press USA/UK)
- Book Chapters: 9 (All in international reference books)
- Expert Sessions: 20+
- Textbooks: 6
- Patents and Copyrights: 20+
- MoUs: 6

Departmental Facilities :

- **Professional Society: VCET-NSDC :** The National Students Data Corps (NSDC) at VCET is a vibrant platform empowering student to explore and apply data science concepts.

- **TechBlog: VCET TechZette – विसीईटी ज्ञानपत्र** (www.techz.vcet.edu.in) : It is a dynamic blog / Technical Magazine showcasing student and faculty innovation.
- **TechBlitz :** The "TechBlitz" challenge event organized by the National Students Data Corps (NSDC) at VCET. The event showcases the prowess of leveraging the power of AI.
- **Excelling the Code Skills series of Student Development Programs (SDP) :** This initiative equips students with cutting-edge skills along with Infosys Springboard Certification.
- **Code-o-Fiesta :** An event designed to foster creativity and problem-solving in the realm of technology.

Industry Collaboration:

- Software AG, Mumbai
- Prime Softech Solutions, Mumbai
- HKI Infotech, Mumbai
- Citius Cloud Services LLP and ContextIQ, Mumbai
- Indian Railways, DRM, Mumbai
- EXL Service, Pune
- Fafadia Tech, Mumbai
- Content Stack, Mumbai

Major Student Achievements:

- Winner of Hackathon conducted in SRM University Andhra Pradesh in track AI & ML.
- Winner of VPPCOEVA, Sion Hackathon and runner up in QUASAR 2.0.
- Winner of Avalon 2023 Hackathon conducted at Terna College of Engineering.
- Winner of Avishkar 2024 conducted in Navi Mumbai.
- Winner of Business Plan Presentation held in SJCEM institute.
- Winners in many inter and intra college events and competitions.
- Successfully completed Industry Projects.
- 60+ Internship Completed.
- Winners of Code-o-Fiesta 2022 and 2023.
- 150+ Students have completed Infosys Springboard Certification in 2023-24.

Department of Mechanical Engineering

About the Department:

Department of Mechanical Engineering was established in the year 1994 with an objective of imparting knowledge and developing practical skills in various areas of Mechanical Engineering. The Department has been re-accredited by NBA and has an intake of 60 students. Furthermore, the Department imparts the skills and expertise in the areas of Design, Thermal sciences, Manufacturing and Renewable energy that are the backbone of Industries. It also offers consultancy in the field of Material testing, Product & Process Design, Energy Audit, ISO certification to the Industries. Moreover, it caters to the students varied interest through student activities. Team VCET Solecthon is renowned National level champion team for years together.

Vision

To be a pre-eminent department for the transformation of students in mechanical engineering into technically and ethically sound professionals.

Mission

- To impart quality education through practical oriented initiatives.
- To prepare industry ready professionals with ethical and moral values.
- To promote entrepreneurship by creating various opportunities.

Department Highlights:

- Department has Four Ph.D. faculty members and Nine faculty members are pursuing Ph.D.
- Department has entered into 27 MOUs with industries and institution.
- Smart classrooms and state of the art infrastructure.

Key Features of the Department:

- Industry Sponsored Machinery Diagnostics
- Industry Sponsored Robotics Labs
- Computerized Fluid Mechanics and Machinery Lab
- AICTE Funded IC Engine Lab

Software

- ANSYS
- SOLIDWORKS
- AUTODISK
- MATLAB
- AUTOCAD

STUDENT CLUBS

VCET ETHAN:

Team VCET ETHAN Design and manufacturing First Ever Formula Student Electric Vehicle

VCET SOLECTHON:

VCET SOLECTHON, official solar electric car team of Vidyavardhini's College of Engineering & Technology, is an entirely student-run, non-profit organization fueled by its member's passion for environmentally sustainable technology.

VCET CENTURIONS:

Team VCET Centurions is one of the seasoned teams of VCET involved in the design and manufacturing of an ATV quad bike. For past 6 years, the team has been designing and manufacturing vehicles that personify power and agility simultaneously.

VCET AIRNOVA:

Team VCET Airnova is the official Aeronautics & Aerospace team of Vidyavardhini's College of Engineering & Technology; the main motto of the team is to spread awareness about Technological advancements in the Aviation and Spacecraft sector.

VCET EMECHTO:

The official electric bike team of Vidyavardhini's College of Engineering and Technology. The team designs and manufactures Electric Bikes for National and Asian Level championships, wherein they officially represent the institute.

Student Achievements:

- Mr. Mitesh Sawant received certificate of accomplishment at NASA (October 2022).
- Judge's Choice award at e - Yantra Innovation Challenge National Finals 2022-23 at IIT-Bombay.
- Team Centurions secured 8th position in Quad-Torc Season 8 (2022) held at Madurai, TN.
- HACKATHON winner at K. J. Somaiya College.
- Winner of Maharashtra state innovation challenge.

Department of Electronics and Telecommunication Engineering

About the Department:

The Department of Electronics and Telecommunication Engineering was established in the year 1994 with an aim of providing progressive education in the field of Electronics and Telecommunication Engineering. The department is equipped with the state-of-the-art laboratories for academic studies and research along with industry collaborated labs set up by Texas Instruments and Siemens.

Vision

To contrive educational and research environment to serve industry and society needs in the field of Electronics and Telecommunication Engineering.

Mission

- To enrich soft skills, ethical values, environmental and societal awareness.
- To develop technical proficiency through projects and laboratory work.
- To encourage students for lifelong learning through interaction with outside world

Scope & Importance of EXTC:

- From global wireless networks to intelligent smart systems, it empowers us to design future marvels. It defines the exploration in exciting realms like robotics, AI, and machine learning that are revolutionizing industries.

Scope:

- Sensor Technology
- Embedded System & IOT
- Robotics & Automation
- 5G Technology
- Nano Technology (VLSI)
- Electric Vehicles
- Wireless & Satellite Communication
- IT Sectors

Honours And Minors Program

- Data Science
- Electric Vehicles
- Smart Cities
- Internet Of Things (IOT)
- Robotics
- AI and ML
- Cyber Security

Department Highlights:

- Highly qualified and experienced faculty members (more than 15 years) is the greatest asset of the department.
- The department has 12 faculty members - 4 - Ph.D. and 4 - Ph.D. pursuing.
- Faculty members have published their research work in International and National conferences and reputed journals.
- Faculty members have published 2 patents and 3 book chapters.

- The department is associated with International and National students' chapters like IEEE, IETE, and Astra Infi and regularly conducts various activities on emerging technological trends.
- ETA (2004) is a literature committee of the department. It publishes 2 newsletter and 1 magazine every year.
- To bridge the gap between academic learning and career opportunities, Department has signed MOUs with 12 industries, enhancing placement support, and fostering career growth of students.
- The Department encourages industry projects, Internships and organizes industrial visits with the aim of providing practical learning opportunities.
- Students participate in various state and national level project competitions and publish their research work in reputed journals and conferences.
- Students participate and are selected for Zonal Round of Avishkar competitions, have won in Maharashtra Student Innovation Challenge and hardware hackathon.
- Students regularly participate and are selected for final round in Smart India Hackathon.

Infrastructure:

- Signal Processing Lab
- Basic Electrical Lab
- Microwave-and-antenna-lab
- Communication Lab
- Project Lab
- Electronic Circuit Lab
- Circuit Simulation Lab
- Embedded-system-and-vlsi-lab

Professional Bodies Students' chaplers:

- Institute of Electrical and Electronics Engineers (IEEE)
- Institution of Electronics and Telecommunication Engineers (IETE)
- Astra-Infini Space Club (Dept level).

Activities conducted by Students' chapters:

- Oscillations (Technical Paper presentation)
- VNPS (National Level Project showcase)
- Anveshan (Product showcase)
- Student development programs and workshops on emerging technologies
- Webinars/Seminars by International speakers
- Industry Visits

Students Achievements

- Finalist in Smart India Hackathon (SIH)
- Winners in 48 Hrs Hardware Hackathon
- Winners in National Solar Vehicle Challenge
- Runner-up in District level Maharashtra State Innovation Challenge
- 5th Rank in National Level Techfest-Product development, IIT Bombay

Department of Civil Engineering

About the Department:

     The Department of Civil Engineering came into existence in the academic year 2013-14 with an initial intake of 60 students. Subsequently, a post-graduate program in Civil (Structural) Engineering was introduced in 2022-23. The department offers a learning environment for students to acquire the knowledge, skills, and practical experience necessary to thrive in the continuously evolving Civil Engineering field.

Vision

To transform students into creative and technically proficient Civil Engineers to serve the nation.

Mission

- To adapt to collaborative teaching learning practices for efficient learning.
- To become a centre of excellence for providing knowledge base and consultancy services to the community.
- To follow ethical and moral practices and educate students for professionalism and sustainability.

Why Civil Engineering?

- Civil engineering is a professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment, including public works such as roads, bridges, railways, airports, canals, dams, sewage systems, Residential and Commercial buildings. Civil engineers are required by the Government in the municipal corporations, irrigation department, and public works departments; they are also required in the private sector from locally based firms, Corporates to global Fortune 500 companies. The core Civil Engineering Domains are Geotechnical, Structural, Town planning and Transportation, Environmental and Water resource management, Construction Management and many Interdisciplinary fields.

Infrastructure:

     Civil engineering laboratories include Fluid Mechanics, Applied Hydraulics, Transportation, BMCT, Geotechnics, Environmental, Surveying/ Project lab and Research Lab.

Department Highlights:

- Experienced members of faculty with an average experience of over 10 years. Three faculty members hold Ph.D. and two are pursuing Ph.D.
- Faculty members have published research papers, books, and copyrights, highlighting innovative contributions to technology and society.
- 16 MOUs with industries and institutions for our students to get practical exposure, internships, industry-based projects, and placement.
- Civil Engineering Labs are authorized by Vasai Virar Municipal Corporation for Material testing.
- Through VCET – ADT Cell, Audit, Design and Testing facilities are provided to society.

Professional Society / Chapter:

- Indian Green Building Council Student Chapter (IGBC)
- Indian Society of Structural Engineer Student Chapter (ISSE)

Student Achievements:

- 1st, 2nd and 3rd Prize in Cube Testing competition organized by American Concrete Institute in 2023
- Best Paper Award at International Conference on Advances in Civil & Mechanical Engineering organized by Thakur College of Engineering in 2023
- 1st Runner up and Special appreciation prize in Technical Paper Presentation at National Level Civil Engineering Symposium "NIRMITEE 2021" at MIT World Peace University, Pune.
- Secured 1st Prize in Quiz (Civil War) held at St. John College of Engineering and Management, Palghar
- Received 2nd prize in Prakalp – 2024 (State level Project Competition) organized by Pillai HOC College of Engineering and Technology
- Won Second Prize in 'Civil Sudoku' competition in the event Aakruthi 2021, held by Nalla Malla Reddy Engineering College, Telangana, Hyderabad

About Master of Civil Engineering:

At VCET, we ensure that proficient students can easily advance from their undergraduate level to graduation level. With an M. E. in Structural Engineering, students can optimally utilize their skills and knowledge to tackle the comprehensively evolving field of Structures. The annual intake of 24 students is offered and a balanced environment that combines individualized attention with a dynamic and diverse academic community. The course is of two years duration which includes robust peer collaboration and access to mentorship from distinguished faculty, equipping our students with the skills and knowledge necessary to become leaders in the field of Structural Engineering.

Masters students are encouraged to do internships in reputed Structural Consultancy firms for better exposure to the Industry and to minimise the gap between the curriculum and industry. Also, in the second year of the course, students are provided with the mentorship from the structural consultancy firms to adopt final year projects to solve live problems of the industry. Furthermore students are motivated to present their final year project work in renowned conference and Scopus/SCI indexed journals.

Department of Electronics Engineering (VLSI Design and Technology)

About the Department:

Within the realm of electronic engineering, VLSI Design and Technology stands out as a specialized branch. This field specifically focuses on the intricate design and implementation of integrated circuits (ICs) housing thousands to millions of transistors on a solitary chip. VLSI Design and Technology entails the process of crafting an integrated circuit by amalgamating thousands or millions of transistors onto a singular chip.

Goal:

According to the objectives of the VCET, the goal of VLSI Design and Technology is to promote technological innovation, develop a skilled workforce, foster entrepreneurship, and enhance the nation's competitiveness in the global semiconductor industry. This initiative aims to contribute to economic growth and advancements across various sectors.

Why VLSI?

VLSI Design Technology plays a transformative role in today's tech-driven world, driving innovation, enabling connectivity, and shaping the future of electronics. Its importance spans across industries, from computing and communication to entertainment and emerging technologies, making it a critical field for technological progress and economic development.

Evolution & Future Trends:

AI Hardware Acceleration	AI and Machine Learning Acceleration
Advanced Process Technologies	IoT and Edge Computing
Design for Security	5G and Communication Systems
3D Integration	Design for Low Power and Energy Efficiency
Quantum Computing Integration	Augmented Reality and Virtual Reality
Design for Manufacturability and Reliability	Integration of Heterogeneous Technologies
Edge Computing Optimization	Process Technology Advancements

Specialized Expertise: VLSI necessitates mastery in semiconductor design and fabrication, drawing skilled professionals adept at intricate circuitry for high-performance integrated circuits.	**Technology Innovation:** Our institution cultivates VLSI innovation, empowering students to delve into AI integration, low-power design, and burgeoning memory technologies.
High Demand: The increasing complexity of electronics and demand for energy efficiency drive a high need for VLSI professionals. Companies seek skilled individuals to design and implement advanced integrated circuits.	**Emerging Technologies:** VLSI plays a pivotal role in shaping emerging technologies such as AI, IoT, and 5G, establishing the foundation for interconnected systems.

Career Opportunities:

- Qualcomm
- Globalfoundries
- Nvidia
- Umc
- Presto Engineering
- Rambus
- Texas Instrument
- Asic North

Job Opportunities:

SOC Verification Engineer	VLSI Design Engineer
Frontend RTL Design Engineer	Analog /Mixed-signal IC Designer
Application Engineer	FPGA Design Engineer
CAD Engineer	Physical Design Engineer
Corporate Application Engineer (CAE)	ASIC Design Engineer
Field Application Engineer (FAE)	Research And Development Engineer

Infrastructure:

- Texas Instrument Innovation Lab
- Digital Library with Science Direct, IETE and J-GATE Plus memberships
- Seminar halls with A/C, Projector and fast Internet
- Classrooms with A/C and Projector facilities

Department Highlights:

- Expert Faculty with experience in VLSI Design
- Faculty with PhD in VLSI Design
- Alumni working in VLSI Domain

Central Library
"Swatantra Sainik Uddhavdada Gharat Smruti Granthalaya"

The College central library was established in 1994, simultaneously with the inception of the College. The library's area is 448 sq. mtr. with all modern amenities including Reading Room, Digital Library etc. with open access to all students.

The College has made available well-equipped reading room facility to the students and faculty members with a seating capacity of 150. For maximum utilization of the students and faculty members college has started Open Access system. All the users can go the book shelf and they can choose their desired books or library material. These book can be accessed remotely as well.

The Central Library has started a separate Digital Library section for students and staff members. College has purchases a package of E-Books of PEARSON INDIA EDUCATION PVT. LTD., by spending more than Rs. 3 lakhs, to avail this facility to students and staff. In this package, user can access e-books. Institute is member of DELNET Library Network. All the students and staff have access to this facility in the Digital Library section. Through this facility members can access 900 library networks remotely around India and 6 other countries having access of 50 thousand records of E- books, Journals, Articles, Union catalogue and other documents. Also, student can access the E-Journals of Science Direct Elsevier.

The Central Library is also member of the IIT, Bombay Central Library, all the students and faculty members are using this library for accessing reference books and journals for research and final year project purpose.

| Sr. No	Collection of Library	Resources No.
1.	Total no. of Title	12348
2.	Total no. of Volumes	33979
3.	Total no. of Reference Books	736
4.	e-books for perpetual access	97
5.	e-Journals (Elsevier and Science Direct)	472
6.	Printed Journals	51
7.	Magazines	12
8.	News Papers	12
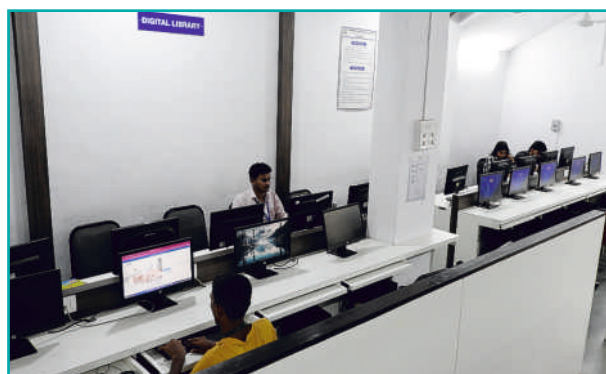
Digital Library

Book Racks

Infrastructure Facilities

- Smart Classroom - 08
- ICT enabled classrooms – 16
- Tutorial Room – 08
- Laboratories – 57
- Centre of Excellence – 03
- Language Lab
- Seminar Hall – 02
- Conference Room – 04
- Auditorium, Open Air Theatre
- Canteen
- Photocopy Center
- Basic Workshop- 02
- Common room for boys
- Ladies Common Room
- Sanitary Napkin Vending Machine
- Facilities for 'Divyangjan'
- Elevators – 03
- Fire extinguishers
- 24x7 security with CCTV
- AC classrooms
- WiFi enabled campus with 1.5 Gbps Internet speed
- Gymnasium

Auditorium
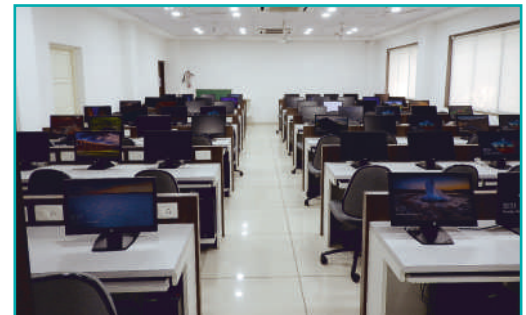
Computer Center

Reading Room

Seminar Hall with Digital Podium

Canteen

Ladies Common Room

Seminar Hall

Center of Excellence

Institute has three Center of Excellence namely Siemens Center of Excellence, Texas Center of Excellence and e-Yantra Robotics Laboratory which aim to train students and Faculty on world class Equipment & Software. The COE provides training by certified partners.

The institute has two industry-sponsored labs as industrial robotics lab and Condition monitoring & Machinery Fault Diagnostics lab.

The aim of the robotics lab is to program robots that will support and aid people in Engineering disciplines such as computer engineering, software engineering, bioengineering, electronics, mechatronics, information engineering, etc. are integrated into robotics.

Condition monitoring (CM) or Machinery Diagnostic (MD) is a maintenance approach that predicts machine health and safety through the combination of machine sensor data that measures vibration and other parameters (in real-time) with state-of-the-art machine monitoring software.
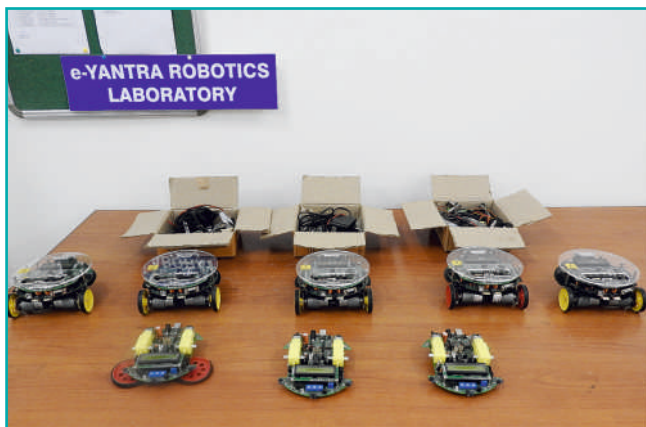
e - Yantra Lab

Robotics

Siemens

Texas Innovation Lab

Results

Sr. No.	Program	Result
1	Computer Engineering	98.70%
2	Information Technology	93.83%
3	Mechanical Engineering	97.87%
4	Electronics and telecommunication Engineering	90.28%
5	Civil Engineering	94.37%
6	Instrumentation Engineering	95.24%

Training and Placement Cell

The Training & Placement Cell at Vidyavardhini's College of Engineering & Technology serves as a pivotal link connecting students with prospective employers. Its primary objective is to facilitate career guidance, skill enhancement, and job placements for the students. The cell operates under the guidance of experienced faculty members and industry professionals, ensuring that students are well-prepared to meet the challenges of the corporate world. Key responsibilities of the Cell include student's campus recruitment training, industry interaction, placement related activities and career guidance.

Training Initiatives:

Training and Placement Cell provides campus recruitment training and pre-assessment tests, which are sponsored by the institute.

Activity	Description
Pre-assess test	For all students in FE & SE, Aptitude and English Communication test by AMCAT.
Intra Institute Internship	Skill Development
Industrial Internship	Collaboration with the local industries and companies to provide industry exposure
Aptitude Training	Career Launcher, Campus Credentials, Gyanteerth
Employability Test	AMCAT, CoCubes, First Naukri, Online GDB, Gyanteerth etc.
Mock GD & Personal Interviews	Faculty, Alumni and Industry Experts, Training Agency, Career Launcher
Industry Expert Sessions & Industry Courses	Company Specific Trainings, Expert Session by Industry, Workshops, Alumni Sessions like Talk with seniors, Resume Writing, InfyTQ and Infosys Springboard

Placement and Higher Studies:

Academic Year	No. of Students Placed	Highest Package	No. of Students Opted for Higher Studies	No of Internships completed by Students
2022-23	275	17 Lakhs	23	497
2021-22	276	12 Lakhs	30	524
2020-21	279	8 Lakhs	38	701
2019-20	288	8 Lakhs	40	492

VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

List of Companies visiting VCET for Recruitment:

Tata Consultancy Services	Bajaj Financial Securities Ltd.	Nippon Instruments Pvt. Ltd.
Larsen Toubro infotech	Best Geotechnics Pvt Ltd.	NPCC Engineering Private Limited
Capgemini	Board of Apprenticeship training	NPCI Bharat Bily Limited (NBBL)
Wipro	Byjus	Optimal Consultancy Services Pvt
Infosys	CE-N Digital Pvt. Ltd.	Persistant
Zensar	Clover infotech	Prabhat automation
Media.net	CMS	Pravin Auto Engineering Pvt. Ltd
Dear Digital	Criton Technology & Automation	Premium Investments
Zensoft	Data Matics	Process Precision Instruments
Bristlecone	Davison Instruments Pvt. Ltd.	Prompt Personnel Services Pvt. Ltd
Burns & McDonnell	Deloitte	Prospect Engineering Works
Best Geotechnices Pvt. Ltd	DEUEX Solutions Pvt. Ltd.	Protivity
Accenture	Drip Capital	Quality kiosk Technologies
Interactive Broker	Dr.Kelkars Design Pvt. Ltd.	Raja Software Labs
Thermax Limited	ECONSHIP	Ramdev Associates
Course5 intelligence	Evosys	Rbhu ETG Pvt. Ltd.
CISCO	Excellous Solutions	RDC Concrete
Citus Cloud	Faze Three Limited	S Cranes
TECHNIMONT	First hive	Safe- Tronics Automation Pvt. Ltd.
Mahindra & Mahindra ltd	Flextronics Technologies (I) Pvt. Ltd.	Set Point Engineering Services
Mahindra Lifespaces	Foxtale Consumer Private Limited	SHRMER
Design Mosaic	GIRIJI Engineering Technology	Sinclus Engineering & Consulting
Hexaware	HCL	Solareous Renewable India Pvt. Ltd.
Jaro	Hudl India Pvt. Ltd.	SONATA
Kent Engineering India Pvt. Ltd.	IBM	SP Ultraflex Systems Pvt. Ltd
QSpiders Campus Connect	Indoco Remedies Ltd.	Sudarshan Enterprises
S-Crane	Indovance Pvt. Ltd.	Tata Power Company Ltd
SoftwareAG	Instazen	Techno Win IT Infra Pvt.Ltd.
Tata Power Company Limited	IOS Commerce	The Wedding Filmer
Techno Win IT Infra Pvt. Ltd.	J S Control	Thermax Ltd
Vardhaman Enterprises	Jacobs India Pvt. Ltd.	Thermolab
Vistaar	Jaisingh Innovations	Touchzing Media Pvt. Ltd.
A-1 Fence Products Company Pvt.	Janyu Technologies Pvt. Ltd.	Uber
Aarti Drugs Ltd.	Jindal Mobilitric Pvt. Ltd.	upGrad
Abhijeet Dies & Tools Pvt. Ltd.	JSV Infrastructure Pvt. Ltd	Upturn Properties LLP
AiBorne Tech	Kanthwal Services	URJA Communications
Alfa Labs	KLAY Securities Pvt.Ltd	V2STech
Allianz	LAQSH PMC LLP	Vaaman Engineers Pvt. Ltd.
Alpha Electronic Controls	Lekeamp Mobility	Vanguardtek
ARCHERCAL Pvt. Ltd.	Leo Infra & Developer	Virtusa
Aryan Structcon Pvt. Ltd.	Litera Technologies Private Ltd.	Vodaphone Idea
Atos	Magna Steyr	XS CAD
AutoCal Solutions Pvt. Ltd.	MAQ software	ZECO Aircon Limited
Autonic Energy Systems Pvt. Ltd.	Neo Quant solutions	Zycus Infotech Pvt. Ltd.

VIDYAVARDHINI'S COLLEGE OF ENGINEERING & TECHNOLOGY

ALUMINI NETWORK

ALUMNI ENGAGEMENT
2018-2023

3000+
LINKEDIN
CONNECTIONS

6500+
ALUMNI
REGISTERED

137
SEMINARS
WORKSHOPS

58
PROJECTS
INTERNSHIPS

ALUMNI CONNECT

ZEAL : Cultural Fest

Dance Performance

Garba Night

Musical Night

Street Play

Teacher's Day Celebration

Kabaddi

Football

Box Cricket

Chess

Volleyball

Table Tennis

CONTACT US