

V.J.T.I.

Veermata Jijabai Technological Institute



Vision

To establish global leadership in the field of Technology and develop competent human resources for providing service to society.

Mission

- ✓ To provide students with comprehensive knowledge of principles of engineering with a multi-disciplinary approach that is challenging.
- ✓ To create an intellectually stimulating environment for research, scholarship, creativity, innovation and professional activity.
- ✓ To foster relationship with other leading Institutes of learning and research, alumni and industries in order to contribute to National and International development.

Contact Us:

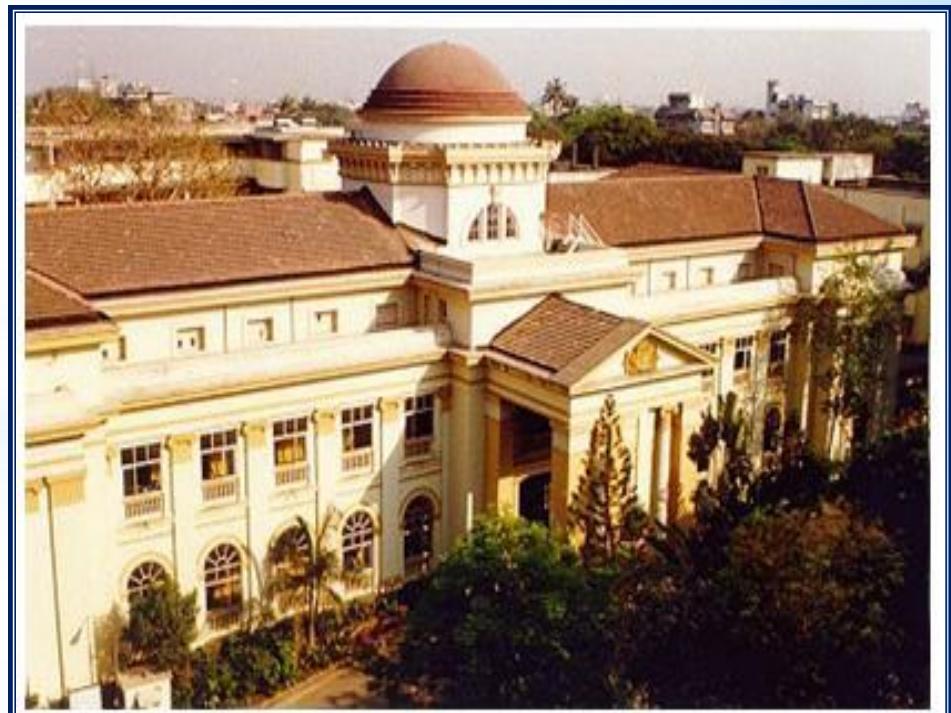
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V.J.T.I



*Veermata Jijabai Technological
Institute*

Established: 1887



About VJTI...

The Veermata Jijabai Technological Institute was given its present title on January 26, 1997. Founded in 1887, it was then known as Victoria Jubilee Technical Institute.

The Institute is reputed for excellent training in courses in engineering and technology at diploma, degree, and post graduate levels of over three thousand students. Over twenty seven courses are offered at the undergraduate, postgraduate, diploma, postgraduate diploma and post diploma levels. A full time Ph.D. programme has been started in 2006-2007 and a total of 108 students are currently on roll.

The Institute was granted financial and academic autonomy from June 21, 2004. As a result, the autonomous VJTI has implemented the revised syllabus for the students in June 2004, at the undergraduate and postgraduate levels following the much valued credit system. Syllabus has been revised in 2009 and 2014. The revised scheme of examinations, which follows a grading system and letter grade point system has been implemented. An important part of curriculum is the practically oriented project at the final year of graduation and the dissertations offered by the postgraduate students.

Significant changes under autonomy are: the setting up of Distance Education Programmes with IIT with VJTI as a Remote Centre; and also the modernisation of the Library to a digital library. Mention must be made that postgraduate students can see the journals online throughout the week, with facility for printing.

Under the World Bank grant – *TEQIP II* - the Institute has several projects underway to establish itself as a world class technological Institute. The modernization will offer excellent central computing facilities to students, who will also have access to improved laboratory and workshop facilities.

The faculty at the Institute is recognized for its Testing and Consultancy work. Realizing the potential of the Institute, reputed industries have sponsored laboratories - for instance, the high voltage laboratory, courtesy Siemens; and the Computational Fluid Dynamics laboratory, courtesy B.A.R.C. etc.

Alumni

The VJTI Alumni Association is a very vibrant body which partners with the VJTI management on a number of projects and issues. Some of the activities that VJTI Alumni Association undertakes are: financial aid for needy students, renovation and upgradation of institute facilities like the Computer Lab in the Civil department and the hostels, organizing the Annual Alumni Meet in December every year. It was through the generous contributions of the Alumni that the Mechanical Seminar Hall and the Civil Seminar Hall were renovated into state-of-the-art conference rooms.

Campus...QUAD



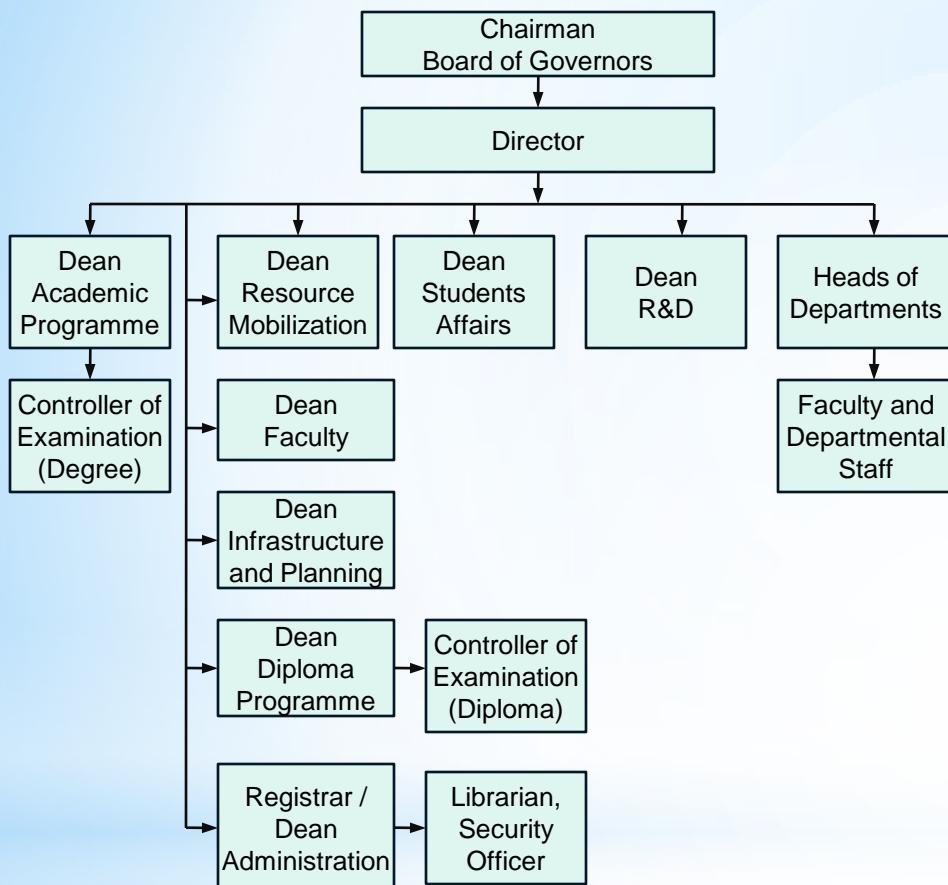
Courses Offered

Diploma Courses	Intake
Diploma (3 Years)	
Mechanical Engineering	60
Electrical Engineering	60
Electronics Engineering	60
Civil Engineering	60
Textile Manufactures	60
Technical Chemistry	60
Post Diploma (2 Years)	
Automobile Engineering	20
Computer Aided Design and Manufacture	30
P G Diploma(2 Years)	
Post Graduate Diploma in Industrial Engineering	35
Post Graduate Diploma in Food, Drug, Cosmetics	30

Undergraduate Courses	Intake
B. Tech. (4 Years)	
Mechanical Engineering	60
Electrical Engineering	60
Electronics Engineering	60
Electronics and Telecomm.	60
Civil Engineering	60
Computer engineering	60
Information Technology	60
Production Engineering	60
Textile Manufactures	60

Post –Graduate Courses	Intake
M. Tech.(2 Years)	
Mechanical Engineering	
Machine Design	25
Thermal Engineering	25
CAD/CAM	18
Automobile Engineering	25
Electrical & Electronics Engineering	
Power Systems	25
Control System	25
Electronics Engineering	25
Electronics and Telecomm.	25
Civil Engineering	
Environment Engineering	17
Construction Management	18
Structural Engineering	25
Computer engineering	
Computer engineering	25
Network Infrastructure Management System	18
Software Engineering	24
Production Engineering	
Production Engineering	18
Project Management	36
Textile Manufactures	18
Master of Computer Applications (3 Years)	60

Organizational Structure



BOG Members

Shri. Nusli Wadia

Chairman, Nominee of Government of Maharashtra

Padmavibhushan Dr. Anil Kakodkar,

Member, Nominee of Government of Maharashtra

Shri. Narain Singh

Member, Nominee of UGC

Dr. Hasit Joshipura

Member, Nominee of Government of Maharashtra

Prof. Devang Khakhar

Member, Nominee of Government of Maharashtra

Shri. Sanjay Chahande

Member, Nominee of Government of Maharashtra

Dr. V. N. Magare,

Member, Nominee of University of Mumbai

Dr. O. G. Kakde

Member Secretary

Prof. H. A. Mangalvedekar,

Member

Prof. S.H. Kulkarni

Member

Sir Dinshaw Manockjee Petit,

Invitee

Dr. Jamshedji Irani,

Invitee

Dr. Ashok R. Joshi

Invitee

Center of Excellence

Complex & Nonlinear Dynamical Systems [CNDS]

VJTI is selected under TEQIP-II subcomponent 1.2.1) for establishment of Centre of Excellence [CoE] in “Complex & Nonlinear Dynamical Systems [CNDS]” with a funding of Rs. 5 Crores by World Bank through National Project Implementation Unit [NPIU], MHRD, New Delhi. The Main objective of CoE CNDS is to act as a focal point for the interdisciplinary research into the theory of complex and nonlinear dynamical systems and its applications across science and engineering branches. Research areas of CNDS includes:

- ✓ Complex Power Grid
- ✓ Smart Grid modeled as Cyber-Physical System (CPS)
- ✓ Cyber-Security in Smart Grid Systems
- ✓ Nonlinear dynamics & transient stability of electrical pulse power & plasma systems
- ✓ Hybrid energy management systems for clean renewable energy
- ✓ Nonlinear vibration analysis etc.



Central Facilities



Internet Lab: The Internet lab is widely used by the students. The lab is equipped with 56 PCs for students and has 10 Mbps of link . Lab is open from 9.00 am to 11.00 pm.

Hostels: Set within the grounds of the 16 acre campus, the V.J.T.I. hostel can accommodate 105 girls and 553 boys. Hostel students have access to the playground, football ground within the campus. There is also an in house doctor and a computer lab. Students participate in cultural and sports activities throughout the year.

Central Library: The library maintains a substantial part of its collection in computer-accessible form as an alternative, supplementing the books in the library. It has approximately 2,400 e-books and 1,100 periodicals online. Faculty, M.Tech and Ph.D. scholars are provided with remote access to the online resources purchased / subscribed to by the Library. E books that are currently being provided include 2011 Springer Collection (Comp. & Engg.), Cambridge E books and McGraw Hill's Access Engineering Collection. E journals or periodicals include IEL (Electrical & Electronics), ACM Digital (Computers & IT), ASCE (Civil Engg), ASME (Mechanical Engg), Springer Link (Sc. & Tech.) and Elsevier's Science Direct (Sc. & Tech.).

Placement Information...

The Training and Placement Office (TPO), which complements the efforts of the faculty and students by providing placement, internship and in-plant training opportunities to students, is one of the focal section in VJTI. It mediates with the corporate sectors and facilitates industry-academic interaction. It obtains feedback from organisations on a regular basis. Campus Recruitment Programme conducted by the institute is a very vital activity for the young engineers aspiring for appropriate placements in the industry. Besides this, degree students of Production Engineering and MCA students also undergo Project training. In many cases, the students are selected and offered jobs even before they appear for the final year examinations.

Today, VJTI stands top in the placements amongst all regional Engineering Colleges. A good idea of the success of the TPO activities in VJTI can be gauged by looking at the list of the companies which have visited here and recruited our students. To name a prominent few—Rakuten, Microsoft, Google, Yahoo, Rediff, Morgan Stanley, Epic, Amdocs, L & T, Godrej, Blue Star, Eaton, Gammon, Wipro, Infosys, TCS, Accenture, Deloitte, Wipro, IBM, Goldman Sachs and Texas Instruments. The highest pay package so far has been Rs 24 lakh offered by Rakuten.

Few of Our Campus Recruiters



Morgan Stanley



rediff.com



TATA CONSULTANCY SERVICES

Distinguished Alumni...



Dr. Anil Kakodkar is an Indian nuclear scientist and mechanical engineer. He was the Chairman of the Atomic Energy Commission of India and the Secretary to the Government of India. He was the Director of the Bhabha Atomic Research Centre, Trombay from 1996-2000. He was awarded the Padma Vibhushan, India's second highest civilian honour, on January 26, 2009.



Dr. Sekhar Basu, Director of Bhabha Atomic Research Center (BARC) is awarded with Padma Shri in 2014. Shri Basu served as Project Director of the Prototype Marine Nuclear Propulsion Plant and subsequently as Chief Executive of the Nuclear Recycle Board. He has been guiding several programmes related to the development and operation of nuclear recycle plants, involving fuel reprocessing and nuclear waste management.



Renuka Ramnath, ex - Managing Director and CEO, ICICI Venture, is one of the most experienced private equity fund managers in India with a full cycle track record of investing capital raised from Institutions of global repute. In 2009, she set up Multiples, an independent, India-focused private equity firm.



Jayant Patil is a politician from Maharashtra. He has held the portfolios of Finance Minister, Home Minister and Minister of Rural Development for the state at various times.

Departments...

Mechanical Engineering



The Department of **Mechanical Engineering**, is one of the oldest with its Diploma programme started in 1887 while Graduate programme in 1947. Industry interaction has increased with one full postgraduate course being offered by industry namely L&T. Many UG and PG students are working in industry-sponsored projects. The department is recognised for doctoral research by the University of Mumbai and is QIP centre for offering Ph.D. The department has kept pace with the rapid development of computer aided methods of design and manufacture with state of the art robotics and CAD/CAM facilities. The faculty has been active in offering consultancy services to industries and conducting courses regularly to facilitate the continuing education of practicing engineers. The academic activities are supported by 19 laboratories. The department has initiated research activities in areas like Computational Mechanics, Computational Fluid Dynamics, Thermal Engineering, Hydraulics, CIM/RPD, Refrigeration, Air Conditioning, Cryogenics, Renewable Energy, and Tribology.

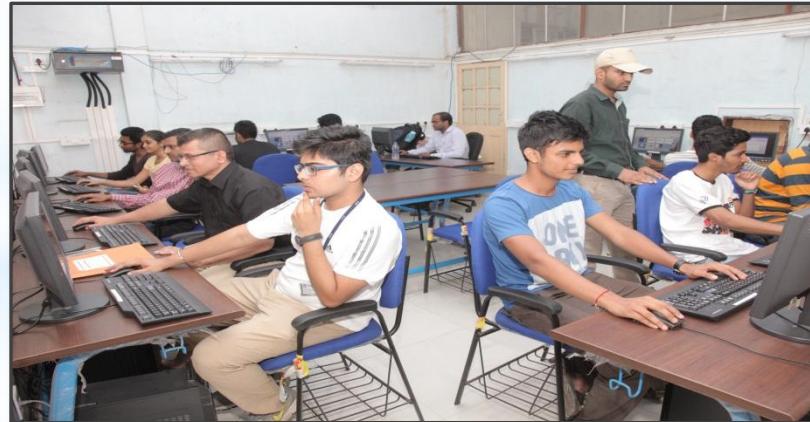


Departments...

Production Engineering



Department of **Production Engineering** was established in 1959 as the Department of Industrial Engineering (DIE) to conduct part time course leading to Postgraduate Diploma in Production Engineering. At present the department offers B.Tech M.Tech and Ph.D. programmes. As a part of curriculum, B.Tech as well as M.Tech students undertake live projects in various industries. The department has excellent industrial interaction through these projects along with industrial visiting faculty for subjects like Supply Chain Management and Process engineering. The students of this department are well motivated and have won a number of prizes in various competitions across the country.



Departments...

Electrical, Electronics, Electronics & Telecommunications Engineering



The vision of the ***Electrical, Electronics, Electronics and Telecommunication Engineering*** Department is to strengthen the Diploma, UG & PG programs by bridging the gap between academics and industry, increasing the research with adequate sponsored projects and industry-institute interaction. Apart from the regular teaching of diploma, UG and PG courses, the department has excellent industry-institute interaction. It has developed state-of-the-art—High Voltage Laboratory due to the generous funding by Siemens (Germany) and All India Council for Technical Education (AICTE). The Department has recently developed state-of-the-art VJTI- L&T Low Voltage Switchgear Laboratory to increase interaction between industry and academics. The Department is also in the process of setting up a centre for EMF studies which will strengthen the fundamentals of the students and contribute extensively to research in the area of computational dynamics and design of electrical machines. IETE—Students forum which was started in November 2012, conducts various activities for the students.



Departments...

Civil & Environmental Engineering



The Department of **Civil and Environmental Engineering** was established in 1912. The department is situated in the building adjoining the main building. The department offers engineering diploma, graduate and post graduate programmes in civil engineering. The civil department offers master of engineering programs with Construction Management and environmental engineering specialisations. The department also offers doctoral program in various specialised areas of Civil engineering. Department is well recognised for its technical testing and consultancy services , which are benefitting to various organisations of government and public sector. The faculty members and students are immensely benefitted by such an exposure. The faculty also participates in the policy making in various areas of civil and environmental engineering as expert members on state and central government departments. The department is equipped with modern laboratories and state of art class rooms .



Departments...

Computer Engineering and Information Technology



The Department of **Computer Engineering and Information Technology** was established in 1986. At first it offered a bachelors degree in Computer Engineering and later expanded with bachelors' programme for Information Technology in 2001. The department faculty is working on the research areas like Information Security, High Performance Computing, Cloud Computing, Wireless Networks, Software Engineering, Human Computer Interfaces, Distributed Computing, etc. The Department has advanced labs in Networking, Multimedia systems, Cloud Computing, Web Engineering, MIS, Advanced Databases & Network Infrastructure Management Systems. The students manage the Association of Computer Enthusiasts for conducting the technical as well as extracurricular activities. The CSI-VJTI student chapter, Mumbai also conducts various workshops and seminars which are of great help to the students in their curriculum. Emphasis is laid on fundamentals of computer science and engineering supported by laboratory practical.



Departments...

Textile Manufactures



The department of **Textile Manufactures** was started as the Ripon Textile School in the early days of the Institute.

B.Tech and M.Tech degrees are awarded at the graduate and postgraduate levels. In-plant training is an integral part of the learning process at the diploma and B.Tech levels.

The Department has a variety of modern spinning and weaving machines and laboratory equipment. The department carries out industry consultancy projects and is recognized by the Government of India as an official testing facility.



Departments...

Structural Engineering



Established in the year 1960, **Structural Engineering** deals with the fields of Structural and Geotechnical Engineering. The department conducts Postgraduate Degree Programme of M.Tech and Civil Engineering with a specialisation in Structural Engineering. Department has also started Doctoral Programmes.

The department has executed many consultancy projects in various fields of Structural Engineering. The major client organisations include Slum Rehabilitation Projects (SRA), NITTE, ONGC Garrison Engineers, BSNL, Omkar Realtors etc. The departmental faculties have participated in various AICTE and State Government committees. On the research front, individual faculty members and research scholars have contributed through research papers in peer reviewed journals and conferences.



Departments...

Master of Computer Applications



The MCA course in VJTI was started in 1984, pioneering the academic contribution to provide the required computer-trained manpower for the upcoming computer industry. The vision of the department is to bridge the gap between academics and industry as well as to increase the research activity.

The syllabus is updated with the help of an advisory committee of academicians and industry members. The department faculty is working on the research areas like Information Security, Cloud Computing, Business Analytics, Computer Networks, Mobile Computing, Image processing etc. The students do their internship in companies like Amazon, Credit Suisse, Morgan Stanley, Nomura etc and are frequently absorbed by these companies.

Departments...



Humanities and Management

The Department of Humanities and Management offers compulsory courses on language and communication skills, at the UG, PG and diploma levels, and optional courses for B.Tech third and fourth year on entrepreneurship development. Besides organising talks and workshops on faculty development, positive thinking, life skills and employability, installing a fully functional digital language lab has been one of the top priorities of the department.

Physics

The department of Physics imparts basic training in physics to the diploma and degree students. The laboratories are equipped with He-Ne laser systems, optical communication kits and ultrasonic flaw detectors, ultrasonic interferometers and more. A new advanced laboratory of "Low Temperature Plasma Processing" is established in the Department which is part of Canter of Excellence in Complex and non-linear dynamical Systems.

Mathematics

Mathematics Department attained its individual status as full-fledged Department in September 1966. Mathematics Department caters to the needs of all the branches of Engineering at diploma, degree and post graduate level . In order to have a strong Mathematical base, at both degree and diploma levels, the department conducts lectures for first Three semesters of diploma courses and first four semesters of degree courses. The syllabi for the various courses have been designed in order to give the student a strong basic knowledge of the concepts for their future studies in Engineering. The diploma curriculum of the Institute has been autonomous right from the inception because of which frequent updates and improvement have been possible.

Departments...

Technical and Applied Chemistry



The department of Technical and Applied Chemistry was established in 1906 to make students proficient in basic and applied chemistry. The department now conducts two autonomous programmes (i) Diploma in Technical Chemistry (DTC) and (ii) Postgraduate Diploma in Chemical Technology with specialisation in Foods, Drugs and Cosmetics Analysis (PGFDC). In addition to these, the department also conducts the course in 'Applied Chemistry' for all first year bachelor's Degree & Diploma students. In addition to teaching work, faculties are involved in research, testing and consultancy activities. Since 2011 there is an MoU between VJTI and DBKKV (Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth) Dapoli, Ratnagiri to undertake research project.

The department has laboratories equipped with the most modern equipments and test facilities such as UV-Visible Spectrophotometers, Karl Fischer moisture titrater, Steam distillation unit, Rota dyer and HTHP Dyeing Machine. The department also conducts industrial testing in the fields of textiles, paints, detergents, cements and other engineering materials.

Sponsored Research and Consultancy Projects

As one of the premier institutes in India, VJTI receives substantial research grants. The grants are awarded based on the research proposals made to the funding agencies by faculty. Some of the external funding agencies are BARC/ DAE for BRNS projects, AICTE for RPS grant and MPCB for environmental engineering.

CONSULTANCY

VJTI faculty members are involved in consulting projects across a wide spectrum of engineering.

Areas: Quality audits, proof checking of design, structural stability analysis.

Clients: MCGM, MMRDA, MIDC, MJP, Shapoorji Palonji, Godrej, Mahindra, etc.

QIP CENTRE

VJTI has been recognised by AICTE as the QIP centre since 2012. In keeping with its objective, the QIP centre has been:

- ✓ Admitting research scholars under the QIP scheme.
- ✓ Organising several one-week short-term courses for teachers from AICTE-approved engineering colleges

Best Practices at VJTI...

- ✓ VJTI takes consistent initiatives towards faculty development.
- ✓ Faculty is encouraged to take up Ph.D.s within the country (QIP Program) as well as outside.
- ✓ An Internal Complaints Committee has been set up which not just investigates complaints of sexual harassment but also works towards creating awareness of gender sensitivity.
- ✓ The Institute's apex academic body—the Academic Council—has representatives from the Industry as well as Academics, as does the Departmental Board of Studies.
- ✓ Numerous need-based as well as merit scholarships are disbursed every year
- ✓ The Institute sponsors faculty for presenting research publications nationally as well as internationally.
- ✓ Continuing Education Programmes (CEP) are conducted regularly under QIP for faculty.
- ✓ Employees who have finished 30 years of service are felicitated.
- ✓ Ph.D. programmes are offered in seven disciplines with more than 100 scholars enrolled.
- ✓ The VJTI Ph.D. Colloquium—a two day programme held in the even semester (usually in the month of March) is an event where all Ph.D. students including faculty working towards their Doctoral Degree anywhere in India participate in poster presentations.

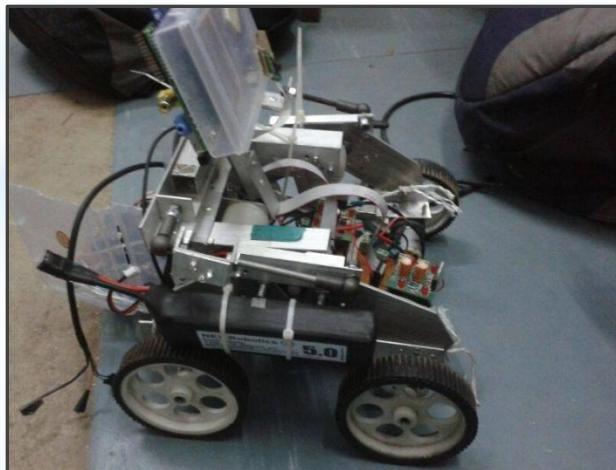
Students' Activities....

Society of Robotics and Automation

The Society of Robotics and Automation (SRA) is a society for VJTI students, dealing with Robotics, Machine Vision, Automation and all their allied fields. The society focuses on developing interest in these field among the student pool and encourages sharing of technical knowledge and skills related to these fields. The SRA represents the Institute at National Level Technical competitions related to robotics. The society also conducts workshops to guide a large number of students on variety of topics such as Autonomous Robotics and aero-modeling .

Society of Automotive Engineers

The VJTI wing of Society of Automotive Engineers (SAE) was formed in 2008 with a view to offer its member an opportunity to showcase their engineering prowess by participating in national competitions held by SAEINDIA. The club consists of dedicated student members ably supervised by two experienced faculty members of the Institute. SAE-VJTI participated in BAJA-SAE, a National level All-Terrain Vehicle making competition. It ranked 35 overall among 327 teams. It also ranked among the top 15 in the 4-hour Endurance race. SAE-VJTI participated in SUPRA-SAE, a National level Formula-style competition. Here it ranked 12th overall among 180 teams. It ranked first in Business presentation and won a cash prize of Rs. 30,000. In 2015, VJTI Racing participated in Eco Kart 2015 (design and manufacturing electric go cart) and bagged the awards for safest Kart, Best-Marketing Strategy & Most Synchronised Team with second Rank on National level. The SAE-Aero teams are participating at international level Aircraft design competitions since 2011. In 2012, the team was awarded the first prize in oral presentation and ranked sixth overall internationally. In 2014, the team bagged first rank among Indian teams, third among Asians and thirty-second for design report. In 2015, the team received the Grand Trophy and a cash prize of Rs. 73,000/-



Students' Activities....

E-Cell

The Entrepreneurship-cell set up in 2007 aims at nurturing the managerial side of the students, inculcate interest and create awareness about entrepreneurial activities and hence develop competent leaders. From interactive talks on the subjects of managements and entrepreneurial skills, to games modeled on stock market, the E-cell goes that extra mile to bring out the creative leader in the students of this institute.

Technovanza

Technovanza, the Annual Technical fest of VJTI gives an opportunity for the young minds of this Institute to showcase their intelligence, innovations and creativity in various fields of technology like robotics, programming, structures, hydraulics etc. Students from various fields get a lot of exposure to the corporate world, where they get to interact with managers and professionals of various companies and organizations. Through competitions, Technovanza has created drive among the students to excel in their respective fields. With a humble beginning 14 years ago, Technovanza has grown from strength to strength and is one of the most anticipated fests today. Technovanza receives an outstanding footfall of excess of 15,000 from all over India. through events, exhibitions, lectures, conferences, initiatives and every effort of the students, Technovanza has been an awe-inspiring and enriched learning experience for every visitor and participant and has captured the imaginations of many. Sponsors and organizations are always willing to associate themselves with Technovanza. With Pratigya and Mission Mumbai, Technovanza this year reached out to each and every sectors of the society and helped the underprivileged students.



Students' Activities....

Pratibimb

Pratibimb is the much anticipated cultural extravaganza of VJTI. Every year Pratibimb is a welcome distraction in the lives of engineering students. Pratibimb offers a plethora of events in the fields of Debate and Literary Arts, Performing Arts and fine Arts. Each year, Pratibimb draws huge crowds from all over Mumbai and beyond. Apart from those with a technical background, it also attracts participants from fields of law, mass media, fashion designing, commerce, arts and pure sciences. We, at Pratibimb, believe that our festival will give the students an excellent opportunity to display their talent and allow them to venture into uncharted territories. Pratibimb also guarantees a return gift of memorable times with its festive and feverish aura.

Debate and Literary Activities

The Debate and Literary Activities (DLA) Society was constituted with the intension of honing of literary skills of the engineers-to-be. The DLA society is engaged with organizing quizzes, debates, poetry competitions and the like. The society also arranges book fairs and movies screenings on regular basis. The Model United Nation (MUN) which is stimulation of United Nation Security Council is a mega event held under DLA banner.

Students' Associations

Every department in the institute has student association which plays pivotal role in the development of students as engineers by various co-curricular activities and industrial visits. The EESA (Electrical Engineering Student Association) and similar another student associations inculcate amongst its member an awareness and appreciation of the various disciplines of engineering.

Associations/MoUs with Renowned Universities/Organization



SIEMENS

Cummins India Ltd, Pune



**Tech
Mahindra**



BLUE STAR

SAMEER


Mahindra



ICT Mumbai

ESMECH
ESMECH




Star Coolers & Condensers Pvt Ltd

M/s Thermoshubham Ltd., Pune



**Institute for Design of
Electrical Measuring Instruments**

a division of
MSEME
MICRO, SMALL & MEDIUM ENTERPRISES
मुख्य, लघु एवं मध्यम उद्यम

Univision Softech Pvt. Ltd.

VJTI
1887-2015



128 Years of Excellence in Technical Education