

## 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.

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# VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE

## Board of Governors (From Jan 2016)

<b>Smt. Sandra R. Shroff</b>	Vice Chairman, United Phosphorus Ltd.	<b>Chairman</b>
<b>Dr. Deepak B. Pathak</b>	CSE Department, IIT Bombay	<b>Member</b>
<b>Dr. Mangesh V. Joshi</b>	CEO, Sanrachana Structural Strengthening Pvt. Ltd.	<b>Member</b>
<b>Shri. Narain Singh</b>	Former JS, UGC	<b>UGC Nominee</b>
<b>Shri. S. J. Kunte</b>	Principal Secretary, Higher & Technical Education, Govt. of India	<b>Member</b>
<b>Dr. Prachi Gharpure</b>	Sardar Patel Institute of Technology, Mumbai	<b>University Nominee</b>
<b>Dr.D.R.Patel</b>	Director, VJTI	<b>Member</b>
<b>Dr. R. D. Daruwala</b>	Professor, Electrical Department, VJTI	<b>Member</b>
<b>Dr. G. P. Bhole</b>	Associate Professor, Computer Engg. & IT Dept, VJTI	<b>Member</b>

## PAST CHAIRPERSONS

Sir Frank Forbes Adam . . . . .	1887 to 1890
G.L.Merewether . . . . .	1890 to 1892
W.S.S.Bisset . . . . .	1892 to 1893
Sir George Cotton . . . . .	1893 to 1899
W.C.Hughes . . . . .	1899 to 1900
S.Rebsch . . . . .	1900 to 1904
G.O.W.Dunn . . . . .	1904 to 1909
Sir F.L.Sprott . . . . .	1909 to 1917
Sir Michael Nethersole . . . . .	1917 to 1920
Sir G.H.Willis . . . . .	1920 to 1922
H.F.Knight . . . . .	1923
R.D.Bell . . . . .	1923 to 1930

Hoosseinbhoy Lalljee . . . . .	1930 to 1935
P.B.Advani . . . . .	1935 to 1948
J.A.Taraporewala . . . . .	1948 to 1956
T.N.Tolani . . . . .	1956 to 1962
G.V.Sapre . . . . .	1962 to 1970
M.V.Deshpande . . . . .	1971 to 1973
B.D.Chaudhary . . . . .	1973 to 1974
G.S.Kadu . . . . .	1974 to 1986
B.B.Chopane . . . . .	1986 to 1997
M.R.Wasekar . . . . .	1997
P.K.Patil . . . . .	1997 to 1999
P.H.Kshirsagar . . . . .	1999
N.B.Pasalkar . . . . .	1999 to 2004

### **PAST HONORARY SECRETARIES**

Nowrosjee Wadia . . . . .	1887 to 1899
M.C.Murzban . . . . .	1899 to 1900
N.A.F.Moos . . . . .	1900 to 1908
Sir Dinshaw Wacha . . . . .	1908 to 1923

### **PAST PRINCIPALS AND DIRECTORS**

J.P.Phythian . . . . .	1888 to 1896
Hugh Monie . . . . .	1896 to 1905
John Mackenzie . . . . .	1905 to 1907
T.S.Dawson . . . . .	1907 to 1920
A.J.Turner . . . . .	1920 to 1931
G.W.Burley . . . . .	1931 to 1940
P.N.Joshi . . . . .	1940 to 1956

B.Sengupto . . . . .	1956 to 1959
R.K.Mody . . . . .	1959 to 1974
G.G.Kalthod . . . . .	1974 to 1982
V.N.Gupchup . . . . .	1982 to 1992
B.S.Bhat . . . . .	1992 to 1994
S.G.Vinzanekar . . . . .	1994 to 1995
V.N.Gupchup . . . . .	1995 to 1997
S.G.Vinzanekar . . . . .	1997 to 1999
S.Sundaram . . . . .	1999 to 2000
S.D.Varwandakar . . . . .	2000 to 2004
Medha Dixit (Director) . . . . .	Nov 2004 to Dec 2005
B.K.Lande (Director) . . . . .	Dec 2005
K.G. Narayankhedkar (Director) . . . . .	Dec 2005 to June 2011
M.C.Deo (Director) . . . . .	June 2011 to July 2012
O.G.Kakde (Director). . . . .	July 2012 to May 2017

<b>ADMINISTRATION</b>	
<b>Chairman</b>	<b>Smt. Sandra R. Shroff</b>
<b>Director</b>	<b>Dr.D.R.Patel</b>
<b>Deputy Director</b>	<b>Dr. V.M.Topkar</b>
<b>DEANS</b>	
<b>Dr. K.K.Sangle</b>	Dean, Academic Programmes
<b>Dr.S.P.Borkar</b>	Dean, Administration
<b>Dr. Sanjay MG</b>	Associate Dean, Student Affairs
<b>Dr. A.S.Wayal</b>	Associate Dean, Infrastructure and Planning
<b>Dr. V.M.Palaskar</b>	Registrar
<b>Dr.S.S.Lokegaonkar</b>	Dean, Diploma

<b>HEAD OF DEPARTMENTS</b>	
<b>Dr.V.B.Deshmukh</b>	Head, Structural Engineering Department
<b>Dr. R.D. Daruwala</b>	Head, Electrical & Electronics Engineering Department
<b>Dr. G.P. Bhole</b>	Head, Computer Engineering & Information Technology Department
<b>Dr.A.B. Pandit</b>	Head, M. C. A. Department
<b>Dr. V.D.Gotmare</b>	Head, Textiles Manufactures Department
<b>Dr. A.S.Wayal</b>	Head, Civil & Environmental Engineering Department
<b>Dr. D.K.Shinde</b>	Head, Production Engineering Department
<b>Dr. N.P. Gulhane</b>	Head, Mechanical Engineering Department
<b>Dr. Sujatha P.</b>	Head, Technical and Applied Chemistry Department
<b>Prof. B.G. Bilapatte</b>	Head Mathematics Department
<b>Prof. Usha Nair</b>	Head, Humanities & Management Department
<b>Dr. D.S. Wavhal</b>	Head, Physics Department
<b>Dr. R.N. Awale</b>	TEQIP-III Officer
<b>Dr. R.D. Daruwala</b>	Principal Rector, Hostels
<b>Dr. V.M. Phalle</b>	Training and Placement Officer
<b>Prof. M.R..Shirole</b>	Controller of Examinations (Degree)
<b>Prof. A.S. Ashtikar</b>	Controller of Examinations (Diploma)

# ORGANISATIONAL PROFILE

## 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 offering premier courses in engineering and technology at diploma, degree and post graduate levels for over three thousand students. 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 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 since June 2004 at the undergraduate and postgraduate levels by implementing much valued credit system. The revised scheme of examinations, which follows a grading system and later 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 compiled by the postgraduate students.

Significant changes under autonomy are the setting up of Distance Education Programmes in collaboration with IITs; upgradation of the existing library to a digital library. Mention must be made that postgraduate students can access the journals online throughout the week.

Under the World Bank grant(s) – TEQIP I & II the Institute has implemented several projects to establish itself as a world class technological Institute. The modernization offers excellent central computing facilities to students, 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.

Several students' activities such as gymkhana, social day and intra/inter collegiate programmes and the college magazine "Nirmaan" serve as a platform to enhance students' soft skills and personality. The Institute has also started its own newsletter from January 2005.

Individual student's profiles through departmental brochures are centrally positioned with the "Training and Placement" office of the Institute. This office competently liaises with over hundred companies and successfully places students for employment and in-plant training through campus recruitment programmes.

# **ORGANISATIONAL STRUCTURE**



## **From Director's Desk**



**Veermata Jijabai Technological Institute, Mumbai is globally renowned for imparting quality technology education and research since 1887. Its graduates combine a solid technical grounding with supporting knowledge, including soft skills. VJTI has nurtured students through cordial teaching-learning environment, well-designed curriculum, well-equipped labs, good teachers and a strong support of alumni network. Since VJTI has built industrial India through its immensely talented graduates, and continuously contributing to build technologically self-reliant nation.**

**Outside the classroom, the students engage in a variety of activities to develop well-rounded society inclusive personae. Through focused pedagogy and rigorous training, VJTI graduates have excellent technical skills, and good exposure to problem solving and teamwork. They have immense confidence and the necessary skills to become a successful and valued member of any organisation.**

**I wish you all a great success in career and life.**

**Dr.Dhiren Patel**

**Director, VJTI, Mumbai**

# CIVIL AND ENVIRONMENTAL ENGINEERING DEPARTMENT

The Institute started offering Diploma level education in Civil Engineering discipline in 1912. The present Department of 'Civil and Environmental Engineering' was earlier started as 'Department of Sanitary Engineering & Plumbing' and offered a diploma 'Licentiate in Civil & Sanitary Engineering'.

To meet the growing needs of industry for higher level technical education, the Institute started offering degree course in Civil Engineering in 1948. Civil & Environmental Engineering Department started offering post graduate degree courses in Civil Engineering with specialization in Environmental Engineering and later on in Construction Management.

The Civil Engineering Department is situated on the first floor of the extended portion of the main building. Currently Civil & Environmental Engineering Department runs three year Diploma program, four year undergraduate Degree Program, Two year Post graduate programs with specializations in Environmental Engineering and in Construction Management and Ph.D programme.

## **Intake Detail:**

Sr. No.	Course	Intake
1)	<b>Diploma</b> Diploma in Civil Engineering	60
2)	<b>Bachelor of Technology</b> B.Tech. in Civil Engineering	60
3)	<b>Master of Technology</b> M.Tech in Civil Engineering with specialization in Environmental Engineering	17
	M.Tech in Civil Engineering with specialization in Construction Management.	18
4)	<b>Ph. D (Civil)</b>	Full Time / part Time started in 2004.

## **Infrastructure**

Civil & Environmental engineering department has class rooms, well equipped Seminar Halls and laboratories equipped with the most modern equipments and test facilities.

Sr. No.	Laboratory
1	Environmental Engineering Lab-I & II
2	Transportation Engineering Lab
3	Hydraulics Lab
4	Land surveying Lab
5	Engineering Geology Lab
6	Plumbing Lab
7	Project Lab ( Civil)
8	UG Computer Lab
9	PG Computer Lab
10	Class rooms, Tutorial rooms, Seminar halls
11	Department office & Faculty cabins

## Faculty List- Regular & Adhoc

### Degree

Sr.No	Name	Designation
1	Dr. A. S. Wayal	Associate Professor & Head
2	Dr. V. M. Topkar	Professor, Dy. Director
3	Dr. S.Y. Mhaske	Associate Professor
4	Dr. P.P. Bhawe	Associate Professor
6	Prof. Mrs. Ashita. J. Sheth	Associate Professor
7	Prof. P. S. Chaudhari	Assistant Professor
8	Prof. S. U. Sayyad	Assistant Professor
9	Dr. V.B. Varekar	Assistant Professor

### Diploma

Sr.No	Name	Designation
1.	Mr. Chetan R. Bhole	Lecturer & Diploma Head
2.	Mrs. Vijaya S. Bhangale	Lecturer
3.	Mrs. Amruta P.Gorkar.	Lecturer
4.	Mrs. Shweta A.Sagole	Lecturer

### Achievements

Faculty/Students involved	Achievement	Dates
<b>Faculty</b>		
Dr. V. M. Topkar	Appointed as Dy. Director V.J.T.I. Matunga, Mumbai- 400019	May 2016
	Delivered invited talk on “ NBA from Evaluators Perspective “at AICTE – ISTE approved Faculty Development Program at A.R. Kalsekar Polytechnic, New Panvel	June 2016
Dr. A.S.Wayal	<b>Expert Trainings:</b> “Outcome based Accreditation” and “How to prepare course file”. Conducted Expert Talk / sessions (15 nos) for imparting training to teaching faculty in various institutes for NBA.	June 2016- May 2017
<b>Student</b>		
Students involved	Achievement	Dates
Neha Gosula & Krutika Sawant- Final year DCE students	won 1 <sup>st</sup> prize for paper presentation on” Solid Waste Management” in PRESENTANIA 2016 – State Level Technical Paper Presentation Competition , 2016 (MSBTE approved) . Venue – St. John Polytechnic, Vevoor, Manor Road, Palghar (E) , Palghar- 400140.	17 <sup>th</sup> September 2016.
	won 3 <sup>rd</sup> prize for Eco-Friendly Techniques in Solid Waste Management at Pravinya 2017 State Level Technical Quiz & Technical Paper Presentation Competition (MSBTE approved) Venue- Pravin Patil College of Diploma Engg & Technology , Bhayander on	18 <sup>th</sup> February 2017

Shraddha Pimpale & Prasad Nagpure- Final year DCE students	won 3 <sup>rd</sup> prize for paper presentation on “Building Management System” in PRESENTANIA 2016 – State Level Technical Paper Presentation Competition , 2016 approved by Maharashtra State Board of Technical education ( MSBTE) . Venue – St. John Polytechnic, Vevoor, Manor Road, Palghar (E) , Palghar- 401404.	17 <sup>th</sup> September 2016.
Akash Shah B.Tech (Civil)	Awarded 1 <sup>st</sup> Prize in Judges Choice in “ Transform Maharashtra” initiative of Chief Minister , Maharashtra	June 2017
	Received Tata Endowment Trust Fellowship of Rs 10 Lakhs for MS at Georgio Tech, Atlanta, USA	June 2017
Manali Mehta B.Tech (Civil) Roshan Patil B.Tech (Civil)	Secured admission at IIM Kolkata and IIM , Ahmadabad respectively.	June 2017

**Visits of dignitaries/committees :**

Activity description	Brief details	Dates
<b>External Academic Monitoring Committee(EAMC)</b>	External Academic Monitoring Committee – MSBTE visited Civil & Env. Engg Dept for Academic Monitoring of Diploma in Civil Engineering programme.	8 <sup>th</sup> March 2017.
<b>Equivalence Committee Visit</b>	Equivalence Committee – MSBTE visited Civil & Env. Engg Dept for granting Equivalence of Diploma in Civil Engineering programme.	5 <sup>th</sup> May 2017

**Developmental Activities:**

Area	Brief details	Sponsor	Amount
<b>Laboratory development</b>			
Modernization of labs	Renovated classroom AL 204, AL 205, AL 206 by [B.E.CIVIL 1990 batch] and AL 203 [B.E.CIVIL 1991 batch] with VJTI Alumni association funding support.	Alumni batch	
Project Lab ( Civil)	Project Lab ( Civil) developed for the benefit of Diploma, UG, PG & Doctoral students.		
Direct Mercury Analyzer	Environmental Engineering Laboratory	TEQIP II	Rs 23,49,994/-
Multichannel Analysis of Shear Wave (MASW)	Transportation Engineering Laboratory	TEQIP II	Rs. 11,11,857/-

**Revenue generated:**

Technical Test Fees	Major Clients	Amount (Rs)
Transportation Engg Lab	MMRDA, MPT BARC, RAILWAY etc	16,02,373/-
Environmental Engg. Lab	B.G.Shirke, MMRDA, Sumit Developers etc	5,07,138/-
<b>Project consultancy fees</b>		

Dr.V.M.Topkar	Third party IRMA for JNNURM / Amrut project for water supply project ( Mukane Dam Source) for Nashik Municipal Corporation, 07/12/2016	75,000/-
Dr.A.S.Wayal	Structural Audit of warehouse, Kalamboli, Navi Mumbai. 31/08/16	4,00,000/-
Dr.A.S.Wayal Prof.P.S.Chaudhari	Central library building construction Mumbai University, PWD. 16/11/16	12,00,000/-
Dr.A.S.Wayal	Structural audit of administrative building and quarter Mulund PWD. 22/03/17	3,50,000/-
Dr.A.S.Wayal Prof.C.R.Bhole	Development of plot, valuation work for PWD.	10,00,000/-
Dr P.P. Bhave	Vetting of Furnace design and its allied APC for PNG Cremations, 2016-17	9,00,000/-
	Project consultancy for design checks & related activities of 6MLD STP to be installed, RMBR Technology, 2016-17	

### Papers presented:

Faculty involved	Title of paper	Title of Conference, Organizer Year & Month
Dr. A.S. Wayal	Namrata Bhalerao and Dr. A.S. Wayal et al , “ Application of nano cellulose in concrete”.	International Journals: Eco. Env. & Cons., ISSN-0971-765X, 22(2): 2016; pp.165-168.
	Ajay V. Chopane and Dr. A. S. Wayal , “Evaluation of Quality of Concrete Road Project based on Statistical Quality Control Techniques”	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 13, Issue 5 Ver. V (Sept. - Oct. 2016), PP 88-92
	Varun Buwa and Dr. A. S. Wayal, “Use of Flyash and Lime for stabilization of Soft Soil.	Electronic Journal of Geotechnical Engineering (EJGE), Vol.21, Bundle 18, 2016. pp-6235-6246
	Prathamesh Nagare and Dr.A.S.Wayal, “Alternate ropeway transit system for Manpada road”,	Civil Engineering and Urban Planning: An International Journal (CiVEJ) Vol.3, No.3, September 2016.
	Vaishali Bharambe and Dr.A.S.Wayal “Analysis of (Multi Village) Rural Regional Piped Water Supply Scheme - A case study”	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 13, Issue 4 Ver. II (Jul. - Aug. 2016), PP 139-143.
	Namrata Bhalerao, Dr. A.S. Wayal et al , “ Application of Nano cellulose in concrete”	Eco. Env. & Cons., ISSN-0971-765X, 22(2): 2016; pp.165-168.
	Nikita Kulkarni and Dr.A.S.Wayal “ Assessment of rural regional water supply scheme-A case study”	Journal of Indian Water Works Association, ISSN 0970-275X,Volume -48,pp-220-226, July-Sept. 2016
	Bharat Chaudhari and Dr. A. S.	49 <sup>th</sup> Annual Convention of IWWA,

Faculty involved	Title of paper	Title of Conference, Organizer Year & Month
	Wayal “Development of Framework for Technical Evaluation of Ongoing Rural Piped Drinking Water Supply Scheme”.	Nagpur, India (Jan 19-21, 2017)
	Seema Deshmukh and Dr. A. S. Wayal “Energy Audit of Water and Wastewater Treatment Plants – A Review”	49 <sup>th</sup> Annual Convention of IWWA, Nagpur, India (Jan 19-21, 2017)
Dr. Sumedh Y. Mhaske	Pooja S. Naringrekar and Dr. Sumedh Y. Mhaske .”Study on New Supplementary Cementitious Material in Construction of Green Building.”	International Journal for Scientific Research and Development (IJSRD), Volume 4, Issue 5, in July 2016, pp 1196-1200. [ June 2016]
	Ninad D. Sawant and Dr. Sumedh Mhaske. “Use of GIS in construction site layout planning”.	International Journal of Scientific Research and Development ( IJSRD), Volume 4, issue 5, 2016, page 1046-1049 [ June 2016]
	Rohit P Khamkar and Dr. Sumedh Y. Mhaske. “Impact of stress on Performance of Construction Employees in Mumbai region.”	International Journal of Scientific Research and Development (IJSRD)’ Volume 4, issue 5, 2016, page 1061-1064 [ June 2016]
	Dhanashri M. Bedagkar and Dr. Sumedh Y. Mhaske. “Application of Advanced techniques and GIS in Railway Safety Management”.	International Journal for Scientific Research and Development (IJSRD), Volume 4, Issue 5, in July 2016, pp 1172-1175. [ June 2016]
Dr.P.P.Bhave	Prashant P. Bhave, A. K “Comprehensive Performance Evaluation of Municipal Solid Waste Management System using Performance Indicator’s Framework”	International Conference on Technological Advances in Climate-Smart Agriculture and Sustainability (TACSAS-2017), 87–90.2017.
	Prashant P. Bhave, H. S. (n.d.). “Disinfection of Drinking Water for Household Purposes using Solar UV Radiation”.	International Conference on Technological Advances in Climate-Smart Agriculture and Sustainability (TACSAS-2017), 115–118.
	Prashant P. Bhave, K. S.”Composite Correction Program of Water Treatment Plant: A Case Study.”	International Conference on Technological Advances in Climate-Smart Agriculture and Sustainability (TACSAS-2017), 75–78.
	Prashant P Bhave, P. D. “Treatment of Sanitary Wears/Nappies using Anaerobic Decomposition.”	International Conference on Technological Advances in Climate-Smart Agriculture and Sustainability (TACSAS-2017), 49–52.
	Karan Sadhwani, Solid Waste Management Legislation: a review	Environmental Policy and law, Published IOS press, Volume 46, Issue 2 Doi: 10.3233/EPL-46205, 165-190, 2016
	Karan Sadhwani, Solid Waste Legislation in India: An outline	Waste Management, Elsevier Science Ltd. Vol.52.pagesI-II.DoI

Faculty involved	Title of paper	Title of Conference, Organizer Year & Month
		10.1016/S0956-053X(16)30277-6 Publisher Pergamon, 1June 2016
	Rajharsh Tiwari, Harshit Singh: Carbon Footprint of Engineering Institute: Case Study VJTI	IE 6rashant6ty Second National Convention of Environmental Engineering
	Sadhwani, K. M., & Bhave, P. P “A review of Performance Evaluation and Performance Optimisation of Water Treatment Plant”	International Advanced Research Journal in Science, Engineering and Technology, 3(7), 157–162, July 2016
	Low Cost Adsorbents For Treatment Of Industrial Wastewater For Dye Removal: A Review	Thirty-second National Convention of Environmental Engineers, Challenges in Environment Management of Growing Urbanization. The Institution of Engineers (India) August 5-6 , 2016
	Assessment of Recycle Potential of Filter Backwash Water at Temghar Water Treatment Plant	Thirty-second National Convention of Environmental Engineers, Challenges in Environment Management of Growing Urbanization. The Institution of Engineers (India) August 5-6 , 2016
Prof. P. S. Chaudhari	Aniket Ambare and Prof. P. S. Chaudhari “Use of Pervious Concrete for Storm Water Management”,	International Journal of Modern Trends in Engineering and Research, June 2017.
	Janhavi S. Gaikwad and Prof. P. S. Chaudhari “Damanganga Pinjal Inter basin water transfer”	International Journal of Modern Trends in Engineering and Research, July 2017.
	Sunny Paul and Prof P.S.Chaudhari “Evaluation of Risk Indicator of Rural Water Supply Scheme”	IWWA 49th Annual Convention 2017, Water Quality Monitoring & Surveillance. Jan 2017.
	Arun Sakpal and Prof. P.S.Chaudhari, “Optimization of water and land use in watershed management”	IWWA 49th Annual Convention 2017, Smart Water Management 21st international conference on Hydraulic, water, resource and coastal engineering Journal of Indian Water Work Association Jan 2017 Dec 2016-2017.
Dr. V. B. Varekar	Karmakar, S., and Jha, R. and Dr. V.B. Varekar., “Seasonal rationalization of river water quality sampling locations”: a comparative study of the modified Sanders and multivariate statistical approaches.	Environmental Science and Pollution Research, Springer, 23, 2308– 2328.(2016)

Faculty involved	Title of paper	Title of Conference, Organizer Year & Month
Prof. C.R. Bhole	Sunitha, Samson Matherw, S Moses Santhakumar and C. R.Bhole. "Field Implementation and Performance of Coir Geotextiles Reinforced Roads".	Proceedings of 8 <sup>th</sup> International Conference on Maintenance and Rehabilitation of Pavements (MAIRPAVE), 27-29 July 2016, Singapore.

### Seminars/Conference/Workshop Organized / activities co-coordinated

Faculty involved	Title of Conference	Sponsoring Organizer, Year & Month
Dr. Sumedh Mhaske, Dr. A.S. Woyal, Prof. P.S. Chaudhari.	"Geospatial Technology in Civil Engineering" conducted in Civil and Env Engg Dept, VJTI for Degree, Diploma faculty (40 Nos).	AICTE sponsored one week QIP programme, 23 <sup>rd</sup> March – 28 <sup>th</sup> March 2017.
Dr.A.S.Woyal	Coordinator for one day workshop on "Water conservation"	TEQIP-II in collaboration with Indian Water Works association(IWWA) and Jalvardhini Prathishthan on 22 <sup>nd</sup> March, 2017
Dr. Sumedh Mhaske, Dr. A.S. Woyal, Prof. P.S. Chaudhari, Prof. C.R.Bhole	Survey field project for IV DCE & SY. B.Tech Students.	Civil & Env. Engg. Dept, VJTI at Saguna Baug, Neral on 8 <sup>th</sup> & 9 <sup>th</sup> February, 2017
Prof P. S. Chaudhari Mrs. Vijaya Bhangale	Internship to T.Y. B.Tech & IV DCE students at different companies in Mumbai for 4-6 weeks.	Summer Vacation of A.Y. 2016-2017 (Entire class of TY B.Tech & 36 students of IV DCE students completed in-plant training )
Mrs Vijaya Bhangale	2 days Training program organised with BASF on Water Proofing & Admixtures for DCE students.	Civil & Env. Engg. Dept with BASF on 8 <sup>th</sup> & 9 <sup>th</sup> August 2016.

### Industry Institute Interaction

#### Consultancy activities: Dr.A.S.Woyal

- Associate Dean- Infrastructures & Planning looking after Planning, Tendering Estimation, Billing for development & maintenance of VJTI campus.
- Peer review of estimates for storm water drain (SWD) and other works for Municipal Corporation of Greater Mumbai (MCGM)
- Third party Quality audit of concrete roads in Kalyan-Dombivli Municipal Corporation (KDMC).
- Vetting of technical specifications of construction of buildings for Dharavi sectors
- Third party quality audit of Reinstatement of trenched for Municipal Corporation of Greater Mumbai (MCGM)
- Consultancy for Investigation of reasons for deterioration of road and recommend suitable method, PWD, Raigad
- Structural audit of buildings.

### Expert Lectures/ Site Visits arranged for Diploma/Degree/ PG Programme of Civil Engineering

Sr. No	Speaker	Topic	Date	Class	Organized by
1	Mr. Hemant Dhamankar	Plumbing in residential building	21/09/2016	TY B.Tech	Mrs A. J. Sheth



Sr. No	Speaker	Topic	Date	Class	Organized by
2	Mr. Rajesh Shah	Construction Management	20/10/2016	Final Year B.Tech	Mrs A. J. Sheth
3	Mr. Shriram Patvardhan	Design and construction of cooling tower	19/10/2016	M. Tech	Dr. S. Y. Mhaske
4	Mrs. Sujata S. Gupte.	Team Building	27/7/2016	V DCE	Mrs. Vijaya Bhangale
5	Mr. Shrikant Kshirsagar	Mental Growth in Engineering Practice	3/8/2016	V DCE	Mrs. Shweta Sagole
6	Visit to National Level Expo At Bombay Exhibition Centre, Mumbai	IFAT India 2016 & The BIG 5 Construction India	29/09/2016 30/09/2016	TY B.Tech & M.Tech (Environment and Const. Management)	Prof. P. S. Chaudhari & Prof. A. J. Sheth
<b>8</b>	<b>Site Visits</b>				
a)		Anaerobic Digester for Biological degradation of food waste in near hostel 'c', VJTI campus, Matunga, Mumbai	17/11/17	M.Tech	Dr. P. P. Bhave
b)		NMMC Sewage Treatment Plant , Nerul	01/03/17	M. Tech I year	Dr. P. P. Bhave
c)		Integrated Landfill , Turbhe ,Navi Mumbai	28/02/17	M.Tech I year	Dr. P. P. Bhave
d)		Bio-Methanation Plant ETP Slaughter House Deonar Abattoir	22/02/17	M.Tech I year	Dr. P. P. Bhave
e)		Bhandup Water Treatment Plant	25/01/17	Final Year Diploma	Mrs. Vijaya Bhangale
9	Engineer 's Day Celebration	Short film on construction of Koyna dam was shown to the students	16/09/16	FY M. Tech	Dr. P. P. Bhave

#### 11. Training Program/Seminars/Conferences attended

Faculty staff involved	Title of Conference	Name of publisher, year & month
Mrs . Vijaya Bhangale	Redevelopment of Buildings & Urban Renewal	MSBTE sponsored, 5 day FDP organized by SBMP, Vile Parle (W), Mumbai -400051, 16-20 January 2017.

**Other activities of staff-members at Institute level or outside institute-**

<b>Faculty Staff involved</b>	<b>Activity</b>
Dr.V.M.Topkar	<ul style="list-style-type: none"> <li>• Member of Expert Committee of NBA for accreditation of Programs.</li> <li>• Deputy Director, V.J.T.I. since May 2016.</li> <li>• Member , Civil Works Committee, BOAT(WR), Mumbai</li> </ul>
Dr. A. S. Wayal	<ul style="list-style-type: none"> <li>• Associate Dean (Infrastructure &amp; Planning)</li> <li>• Member of Expert Committee of NBA for accreditation of Programs.</li> <li>• Member of Expert Committee for AICTE.</li> <li>• Member of Intellectual Property Rights (IPR) Committee, VJTI.</li> <li>• Chairman, Board of Studies, Civil &amp; Env. Engg. Dept.</li> <li>• Institute Coordinator Quality assurance.</li> <li>• Vice- Chairperson CESA.</li> <li>• Member of Departmental Academic Council</li> <li>• Guide for M.Tech and Ph. D candidates</li> <li>• Mentor- M.Tech (Construction Management)</li> <li>• Member, Editorial Board , Journal of Indian Water Works Association (2015-17)</li> <li>• Reviewer, Journal of Hydrologic Engineering, ASCE.</li> <li>• Consultant for various Quality Audit Works.</li> <li>• Delivered Expert talks on Outcome Based Education at 15 Institutes.</li> <li>• Chairman – Staff Quarters Committee.</li> </ul>
Dr.Sumedh.Y.Mhaske	<ul style="list-style-type: none"> <li>• Associate Dean ( Infrastructure and Planning) upto May 2017</li> <li>• Member of VJTI Academic council</li> <li>• Member of VJTI Scholarship committee</li> <li>• Member of B.C. cell, VJTI</li> <li>• Member Board of studies, Civil &amp; Env Engg Dept</li> <li>• Directors Nominee for contractual faculty appointment VJTI</li> <li>• Expert for contractual faculty appointment SPCE</li> <li>• Member Research review committee, General Engg Dept , ICT</li> <li>• Reviewer for Springer Journals Editorial Office Proceedings of the National Academy of Sciences, India Section A: Physical Sciences</li> </ul>
Dr. P.P. Bhawe	<ul style="list-style-type: none"> <li>• In charge – Environmental Engineering Laboratory.</li> <li>• Member, Expert Group on BIS Technical Committee on Geo-synthetics, TX30.</li> <li>• Member; Heritage Committee, MCGM, Mumbai.</li> <li>• Reviewer for publication in the Elsevier’s Journal “Resources, Conservation &amp; Recycling From Feb 2014.</li> <li>• Reviewer International Journal of Environment and Sustainable Development; Inder science Publications</li> <li>• Reviewer for Journal of Earth System Science, JESS.</li> <li>• Member, Technical Advisory Committee; NMMC, Navi Mumbai.</li> <li>• Member; AICTE Committees.</li> </ul>
Prof. Mrs. A. J. Sheth	<ul style="list-style-type: none"> <li>• Chairperson, Civil Engineering Students Association (CESA)</li> <li>• Co-ordinator for revision of UG syllabus</li> <li>• Mentor of B Tech Civil class.</li> </ul>
Prof. P. S Chaudhari	<ul style="list-style-type: none"> <li>• Time Table coordinator at institute level.</li> <li>• Hydraulics Laboratory In-charge.</li> <li>• Member of BC Cell VJTI.</li> <li>• Director’s Nominee for contractual faculty appointment VJTI.</li> </ul>
Prof. S.U. Sayyad	<ul style="list-style-type: none"> <li>• Deputed for Ph D in Environmental Engg. at Indian Institute of Technology, Roorkee since AY 2016 under QIP.</li> </ul>
Dr.V. B. Varekar	<ul style="list-style-type: none"> <li>• Departmental Exam-Coordinator</li> </ul>

	<ul style="list-style-type: none"> <li>• Member Secretary of BOS, CEED VJTI</li> <li>• Member of BOS, Civil Engineering Department, Walchand College of Engineering, Sangli</li> <li>• Departmental faculty Meeting Co-ordinator</li> <li>• Invigilator for MHTCET 2017, Maharashtra State</li> <li>• Class mentor, Second Year UG</li> <li>• Guide for M. Tech and PhD students</li> <li>• Reviewer, Journal of Environmental management, Elsevier</li> <li>• Faculty Co-ordinator CESA, VJTI</li> <li>• Member of UG admission 2017-18, VJTI admission cell</li> <li>• Deputed to DTE Maharashtra, as an officer for admission verification</li> <li>• Incharge of Air Pollution laboratory</li> <li>• Testing Officer, Environmental Testing Laboratory</li> </ul>
Mr. Chetan R. Bhole	<ul style="list-style-type: none"> <li>• In-charge- Surveying Laboratory</li> <li>• Chairman of PBOS of Civil Engg. Dept.(from 2<sup>nd</sup> May, 2017)</li> <li>• Faculty In-charge of Civil Works</li> <li>• Nominee Head, Diploma in Civil Engg. (from 2<sup>nd</sup> May, 2017)</li> <li>• Testing Officer- Transportation Eng. Laboratory</li> <li>• Member of BOS, VJTI(from 2<sup>nd</sup> May, 2017)</li> <li>• Working as Co-PI for various Valuation, Quality Audit of road works</li> <li>• Managing Administrative Work Related To Diploma Programmes(from 2<sup>nd</sup> May, 2017)</li> <li>• Diploma in Civil Engg. Time Table Coordinator (Even Sem. AY 16-17)</li> <li>• Member of Diploma Admission (2017-18)</li> </ul>
Mrs. Vijaya Bhangale	<ul style="list-style-type: none"> <li>• Nominee Head , Diploma in Civil Engineering upto April 2017</li> <li>• Chairperson-Programme-wise Board of Studies (PBOS) for DCE curriculum revision upto April 2017.</li> <li>• Member of Diploma Departmental Program Committee (DDIPC) for Civil &amp; Env. Dept.</li> <li>• Mentor for F.Y. DCE.</li> </ul>
Mrs. Amruta Gorkar	<ul style="list-style-type: none"> <li>• Secretary of Diploma Departmental Program Committee (DDIPC) for Civil &amp; Env. Dept.</li> <li>• Member -PBOS</li> <li>• Examination Co-ordinator of Civil &amp; Env. Engg. Dept. for Diploma program from January 2017.</li> </ul>
Mrs. Shweta Sagole	<ul style="list-style-type: none"> <li>• Engineering Geology Laboratory In-charge</li> <li>• Civil Computer Lab –In charge</li> <li>• Second Year Class Mentor</li> <li>• NBA-Diploma Coordinator</li> <li>• Departmental Coordinator Annual Report, Dashboard Alumni Report, Institute Brochure</li> <li>• Member Secretary-PBOS</li> <li>• Time Table Coordinator Odd Sem. AY 16-17.</li> <li>• In charge -Curriculum Development Component</li> <li>• Member of Diploma Departmental Program Committee (DDIPC) for Civil &amp; Env. Dept.</li> </ul>

## MECHANICAL ENGINEERING DEPARTMENT

### Department Overview:

- It is the oldest department in VJTI. The Department offers academic programmes leading to Diploma (Started in 1887), B.Tech. (Started in 1947), M.Tech. (Started in 1958/2000/2011) and Ph.D. degrees (started in 2006).
- Distinguished Alumni:
  - a. Dr Anil Kakodkar, Ex- Chairman of the Atomic Energy Commission of India
  - b. Shri Shekhar Basu, Director BARC
  - c. Shri. M.S. Krishnamoorthy, Sr. Vice President (Corporate HR & Personnel), L&T Ltd
  - d. Shri. B.P. Patil, Dy Municipal Corporation (Retd), MCGM
  - e. Shri. Iqbal Hassanally Nasser, Director- Technical, Techotalent Engg, Bangalore
  - f. Shri. Ashok Atre, Executive Chairman and Director, Transparent Engg Systems Pvt. Ltd.
  - g. Shri. Nissim Ghoge, Regional director (Franchise) Alcon, Novartis Company
  - h. Shri. Ravindra R Borkar, Director, Cobit Engg Pvt Ltd, Mumbai
  - i. Shri Abbasali Gabula, Dy Director, External Relation and Administration works, S.P. Jain Institute of Management and Research (Mumbai).
  - j. Shri. Cherian Thomas, National Director and CEO, World vision, Chennai
  - k. Shri. Ajit Gosavi, Head of TechOps India – AH BU at Novartis consumer Health.
  - l. Shri. Arun S. Pai, Director, Business Analytics and Data Engg, Flipkart (Banglore).
- Department is acting as a minor QIP Centre for the Doctoral Research.
- The Department has 29 faculty members and 40 permanent supporting staff members. It caters to the academic requirements of about 200 Diploma, 300 UG, 200 PG, 40 Ph. D. students. It also caters to the academic requirements of common First Year Engineering and Diploma courses viz. Engineering Graphics, Elements of Mechanical Engineering, Workshop Practice, etc.
- The faculty members are grouped under four broad specializations - Design, Manufacturing Engineering, CAD/CAM and Thermal & Fluid Engineering.
- The academic activities are supported by 18 laboratories.
- The Department has initiated research activities in the following areas: Computational Mechanics, Fracture Mechanics, Micro and Nano manufacturing, Thermal Engineering, Hydraulics; CIM/RPD; Refrigeration, Air conditioning, Cryogenics; Vibration and Tribology, etc.
- The faculty has been active in offering consultancy services to industries and conduct courses regularly to facilitate the continuing education of practicing engineers.
- The Mechanical Engineering Dept at VJTI Mumbai, as one of the largest in terms of faculty, students and activities, continues to lead and expand its activities on various fronts.
- Industry interaction has been increased with postgraduate courses being offered to industry participants, and many students working in industry-sponsored projects.

The following programs are offered by the Department of Mechanical Engineering

Sr.	Level	Program	Course duration (Years)
1	Diploma	Diploma in Mechanical Engg (DME)	03
2	U.G.	B.Tech in Mechanical Engg	04
3	P.G.	M.Tech in Mechanical Engg (specialization in Machine Design)	02
4	P.G.	M.Tech in Mechanical Engg (specialization in Automobile Engg.)	02
5	P.G.	M.Tech in Mechanical Engg (specialization in CADCAM & Automation).	02
6	P.G.	M.Tech in Mechanical Engg. (specialization in Thermal Engg.)	02
7	Doctoral	Ph.D.	03

### Industry Institute collaboration:

1. The department has collaborations with leading industries and institutes such as Larsen & Toubro Ltd, Bhabha Atomic Research Centre, IITB, ESMECH Equipment Pvt Ltd, Emerson Climatic Solutions, etc.
2. Two hrs per week are allotted for all UG and PG students, to initiate interaction with Industry and R & D Activity – Outside Classroom Learning.
3. Siemens Pvt. Ltd. donated a PLC Training kit for mechatronics Lab.
4. Few course of UG course are shared by industry person to get the built the gap between Academia and Industry.

### Faculty Interaction with Outside world:

Name of the faculty	Nature of Work
Dr. Sanjay M.G.	<ul style="list-style-type: none"> <li>• PhD Work at University of Delaware, USA</li> <li>• Dr. Sanjay M. G. was invited as Member of Ph.D. Defense Committee at University of Delaware, USA.</li> <li>• <b>United States Department of Energy (DOE US) sponsored project – Industrial Assessment Center</b> at University of Delaware conducts energy audits of nearby manufacturing companies to suggest them method of saving their electricity consumption. Sanjay Gopal participated in these audit process and secured certificate as attached for his contribution during 2011-2012</li> <li>• Dr. Sanjay M. G. meeting Prof Babatunde Ogunnaike, Dean College of Engg, University of Delaware, USA to discuss possible Collaborative Research Opportunities between University of Delaware and VJTI.</li> </ul>
Dr. N.P. Gulhane	<ul style="list-style-type: none"> <li>• Working as Sub-Liasioning officer for Maharashtra state Mumbai region MT-CET examination 2013</li> <li>• Research projects in IIT Bombay (Dept of Aerospace Engg.) on, Analytical Investigation of Nusselt number in Microflows with density variation with dual degree IIT B student.</li> <li>• Contributed as session Chairperson in International Conference held at Sardar Patel College of Engineering Andheri Mumbai</li> </ul>
Prof. S.M. Gunadal	<ul style="list-style-type: none"> <li>• Pursuing PhD at IIT Madras</li> <li>• Research Projects from BARC Projects</li> </ul>
Prof. P.A. Wankhede	<ul style="list-style-type: none"> <li>• Pursing PhD at Jadhavpur University</li> </ul>
Prof. R.M. Tayade	<ul style="list-style-type: none"> <li>• Trailer Design Certification</li> <li>• Pursing PhD at Jadhavpur University</li> </ul>
Dr. V.M. Phalle	<ul style="list-style-type: none"> <li>• Trailer Design Certification</li> <li>• Initiated and received approval of New QIP Centre from AICTE New Delhi.</li> <li>• Contributed as session Chairperson in International Conference held at Sardar Patel College of Engineering Andheri Mumbai</li> <li>• Doctoral Consortium Organised in association with Production-Dept</li> <li>• TEQIP II Procurement Coordinator</li> </ul>
Dr. S. A. Mastud	<ul style="list-style-type: none"> <li>• Coordinator for SAE, VJTI Chapter</li> <li>• Working as Sub-Liasioning officer for Maharashtra state Mumbai region MT-CET examination 2017</li> </ul>
Dr. S. S. Naik	<ul style="list-style-type: none"> <li>• Coordinator for AERO-VJTI Chapter</li> <li>• Working as Sub-Liasioning officer for Maharashtra state Mumbai region MT-CET examination 2017</li> </ul>
Dr. P. M. Karande	<ul style="list-style-type: none"> <li>• Worked for MHT-CET Examination</li> <li>• Controller of Examination, VJTI</li> <li>• Working as Institute head for Maharashtra state Mumbai region MT-CET examination 2017</li> </ul>

Dr. W.S. Rathod	<ul style="list-style-type: none"> <li>• Material Testing</li> <li>• PhD work at IITB</li> </ul>
Dr. V.B. Suryawanshi	<ul style="list-style-type: none"> <li>• Coordinator, Industry – Academia Interactions</li> <li>• Coordinator for SRA, VJTI Chapter,</li> <li>• PhD Work at University of North Carolina US</li> <li>• Working as Institute head for Maharashtra state Mumbai region MT-CET examination 2017</li> </ul>
Dr. H.P. Khairnar	<ul style="list-style-type: none"> <li>• Pressure Gauge Testing</li> </ul>
Dr. A.S. Rao	<ul style="list-style-type: none"> <li>• Conducting Short Term Training Programs Like ANSYS, ZWCAD, Hypermesh and Industrial Consultancy in Rapid Prototyping &amp; Manufacturing.</li> </ul>
Dr. M.V. Tendolkar	<ul style="list-style-type: none"> <li>• Research Work for BRNS at IITB</li> <li>• Research Projects from BARC</li> </ul>
Dr. A.V. Deshpande	<ul style="list-style-type: none"> <li>• Research Projects from BARC</li> <li>• Hydraulic Testing</li> </ul>
Prof. S.S. Barve	<ul style="list-style-type: none"> <li>• Trailer Design Certification</li> <li>• Working as Supervisor for Maharashtra state Mumbai region MT-CET examination 2017</li> <li>• Delivered talk at Don Bosco Inst of Tech Vidyavihar</li> </ul>
Prof. S.G. Jadhav	<ul style="list-style-type: none"> <li>• Trailer Design Certification</li> <li>• Pursuing PhD at IIT Roorkee</li> </ul>
Prof. G.U. Tembhare	<ul style="list-style-type: none"> <li>• Trailer Design Certification</li> <li>• Working as Sub-Liasioning officer for Maharashtra state Mumbai region MT-CET examination 2017</li> <li>• Pursuing PhD at IIT Roorkee</li> </ul>
Prof. S. P. Gajre	<ul style="list-style-type: none"> <li>• Worked as team member for First Year Admission 2017</li> </ul>

### Training Programs conducted:

Name of Faculty	Area of Training	Venue	Duration	
			From	To
Dr Sanjay M G, Dr. M. V. Tendolkar	“Renewable Energy Source for Sustainable Development: Need, Technologies and Policies”	Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai funded by AICTE-QIP	04 <sup>th</sup> March 2016	09 <sup>th</sup> March. 2016
Dr. S. A. Mastud	Research Methodology	Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai funded by AICTE-QIP	04 <sup>th</sup> March 2016	09 <sup>th</sup> March. 2016
Dr. S. A. Mastud	Micro/Meso- Scale Manufacturing Technologies	Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai <b>GIAN Course</b>	08 <sup>th</sup> August 2016	12 <sup>th</sup> August 2016
Dr. V. M. Phalle	Industrial Tribology	Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai <b>GIAN Course</b>	04 <sup>th</sup> July 2016	08 <sup>th</sup> July. 2016
Dr. V. M. Phalle	Robotics for Human Movements Training	Mechanical Engineering Department, V.J.T.I.	08 <sup>th</sup> August 2016	12 <sup>th</sup> August 2016

		<b>Matunga, Mumbai GIAN Course</b>		
Dr. N P Gulhane,	Computational Fluid Dynamics	Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai funded by AICTE-QIP	23 <sup>rd</sup> Feb 2016	28 <sup>th</sup> Feb 2016

**(Faculty)Ph. D. :**

1. **Prof. G. U. Tembhare** selected for PhD at IITR under QIP.
2. **Prof. V. B. Surywanshi** has completed PhD from University of North Carolina, USA.
3. **Prof. A. V. Deshpande** has completed PhD from IITB, India.

**No. of Books/papers published:**

**08** papers published by the faculty members in the year 2016-17 in various peer reviewed National, International Journals and proceeding of national and international conferences.

**Faculty List- Regular (with designation)**

**Degree:**

<b>Permanent</b>			
<b>Sr. No.</b>	<b>Name of Faculty</b>	<b>Designation</b>	<b>Qualification</b>
1.	Dr. V.M. Phalle	Asso Prof.	B.E. M.E. Ph.D
2.	Prof. S.H. Kulkarni	Asso Prof.	B.E. M.Tech
3.	Dr. Sanjay M.G.	Asso Prof.	B.E. M.E. Ph.D
4.	Dr. N.P. Gulhane	Asso Prof.	B.E. M.E. Ph.D.
5.	Dr. S. S. Naik	Asso Prof.	B.E. M.E. Ph.D.
6.	Dr. S. A. Mastud	Asso Prof.	B.E. M.E. Ph.D.
7.	Dr. P. M. Karande	Asso Prof.	B.E. M.E. Ph.D.
8.	Prof. S.M. Gunadal	Asso Prof.	B.E. M.E. Pursuing PhD
9.	Prof. P.A. Wankhede	Asst. Prof	B.E. M.E. Pursuing PhD
10.	Prof. R.M. Tayade	Asso. Prof	B.E. M.E. Pursuing PhD
11.	Dr. W.S. Rathod	Asst. Prof	B.E. M.E. Ph.D
12.	Dr. V.B. Suryawanshi	Asst. Prof	B.E. M.E. Ph.D
13.	Dr. H.P. Khairnar	Asst. Prof	B.E. M.E. Ph.D
14.	Dr. A.S. Rao	Asst. Prof	AMIE, M.Tech, Ph.D
15.	Dr. M.V. Tendolkar	Asst. Prof	B.E. M.E. Ph.D
16.	Dr. A.V. Deshpande	Asst. Prof	B.E , M.E. Ph.D
17.	Prof. S.S. Barve	Asst. Prof	B.E. M.E.
18.	Prof. S.G. Jadhav	Asst. Prof	B.E. M.E. Pursuing PhD
19.	Prof. G.U. Tembhare	Asst. Prof	B.E. M.E. Pursuing PhD
20.	Prof. S. P. Gajre	Asst. Prof	B.Tech. M.Tech.
<b>Adhoc Faculty</b>			
<b>Sr. No.</b>	<b>Name of Faculty</b>	<b>Designation</b>	
1.	Uddhav D. Nimbalkar	Asst. Prof	
2.	Shrikant Kale	Asst. Prof	
3.	Yogesh Gore	Asst. Prof	
4.	Amol Dhumal	Asst. Prof	
5.	Pallavi Ghutke	Asst. Prof	
6.	Shlipa Bahadure	Asst. Prof	
7.	Anuprita Bhosle	Asst. Prof	
8.	Shubhankar Tankhiwale	Asst. Prof	

9.	Ashwini Ghotmare	Asst. Prof
10.	Sumit Palkar	Asst. Prof
11.	Vishwadeep Handikherkar	Asst. Prof

**Diploma:**

<b>Permanent</b>			
<b>Sr</b>	<b>Name of Faculty</b>	<b>Designation</b>	<b>Qualification</b>
1.	S V Diwan	Lecturer (Selection Grade)	M E Mech
2.	Peter D'souza	Lecturer (Selection Grade)	M E Mech , Pursuing PhD
3.	K P Kudalkar	Lecturer (Selection Grade)	M E Mech
4.	S D Rote	Lecturer (Selection Grade)	M E Prod
5.	R O Bhagwat	Lecturer (Sr. Scale)	M.Tech (Ind Mgmt) Pursuing PhD
6.	R S Kadge	Lecturer (Sr. Scale)	M E Mech
7.	V N Palaskar	Lecturer (Sr. Scale)	M E Mech , PhD
8.	V M Barethiye	Lecturer	M E Mech , Pursuing PhD
9.	A R Dhiware	Lecturer	B.E. Mech
<b>Adhoc Faculty</b>			
<b>Sr. No.</b>	<b>Name of Faculty</b>	<b>Designation</b>	
1.	Nitesh Eknath Chaudhari	Lecturer	
2.	Saurabh B. Kamble	Lecturer	
3.	Onkar Deodhar	Lecturer	

**Non-Teaching staff:**

<b>Sr. No.</b>	<b>Name</b>	<b>Designation</b>
1.	V.V. Pethe	Foreman
2.	R.T. Bachhav	Draftsman
3.	R.V. Mestri	Instructor
4.	L.S. Ghole	Instructor
5.	S.B. Ghare	Instructor
6.	S.J. Dude	Instructor
7.	A.S. Gurav	Instructor
8.	N.S. Sawant	Lab. Assistant
9.	E.D. Salkar	Lab. Assistant
10.	G.D. Sawant	Lab. Assistant
11.	M.K. Dhuri	Lab. Assistant
12.	D.M. Solanki	Lab. Assistant
13.	D. B. Kachare	Lab. Assistant
14.	D.M. Toraskar	Lab. Assistant
15.	P.P. Mahimkar	Carpenter
16.	S.S. Gengaje	Asst. Fitter
17.	S.M. Kamble	Fireman
18.	S.N. Satam	Lab. Attendant
19.	P. P. Chimte	Lab. Attendant
20.	B. P. More	Lab. Attendant
21.	S. B. Hatipkar	Lab. Attendant
22.	M.G. Tambe	Lab. Attendant
23.	H.B. Kunde	Lab. Attendant
24.	N.S. Ambekar	Lab. Attendant
25.	R.G. Sawant	Lab. Attendant
26.	G.V. Pote	Lab. Attendant
27.	S.B. Ghole	Lab. Attendant



28.	R.G. Lade	Lab. Attendant
29.	R.M. Shetye	Lab. Attendant
30.	S.P. Kedare	Lab. Attendant
31.	S.H. Mane	Lab. Attendant
32.	P.D. Johare	Lab. Attendant
33.	P.S. Pawar	Lab. Attendant
34.	S.R. Wadekar	Hamal
35.	S.D. Kulkarni	Hamal
36.	B.B. Ilag	Hamal
37.	S S. Phadte	Sr. Clerk

## Achievements of Faculty

### Training

Name of Faculty	Area of Training	Venue	Duration	
			From	To
Dr Sanjay M G, Dr. M. V. Tendolkar	“Renewable Energy Source for Sustainable Development: Need, Technologies and Policies”	Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai funded by AICTE-QIP	04 <sup>th</sup> March 2016	09 <sup>th</sup> March. 2016
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Dr. N P Gulhane,	Computational Fluid Dynamics	Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai funded by AICTE-QIP	23 <sup>rd</sup> Feb 2016	28 <sup>th</sup> Feb 2016

### Developmental Activities:

Sr. No.	Laboratory	Plan of action
1	Mechatronics Lab	New setup for PLC Training kit donated by Simens Pvt. Ltd.
2	PG Laboratory	New dedicated laboratory with 50 computers for PG students
3	GUI Laboratory	New laboratory with 60 computers for Diploma/Degree students
4	Faculty Cabins	New cabins in metallurgy lab and Dynamics Lab on Second floor, Refurbishing Cabins on first Mezzanine floor

5	NCES Lab	Setting up of Solar Thermal Laboratory MoU with M/s Thermoshubham Ltd Pune
6	NCES Lab	UG project on validation of testing procedure for concentrating solar collectors – 1 collector installed and testing & validation is under progress.
7	NCES Lab	Developed Compounding Parabolic Concentrator (CPC)
8	CADCAM and Robotics Lab	10 Nos High End Computers were procured through AICTE-MODROBS in Robotics & CAD/CAM Lab 16 nos perpetual network licenses of Delcam's CAM Software of modules of (powerMILL, powerSHAPE, powerINSPECT & ArtCAM) were procured through AICTE- MODROBS fund in Robotics & CAD/CAM Lab. Delcam software was installed and the necessary training was imparted to the concerned faculty.
9	Metallurgy Lab	Micro EDM: micro machine tool with multi process capability. Pin On Disc Set up
10	Dynamics Lab	Hydrodynamic bearing setup.

### Revenue generated:

Technical Test Fees	Amount (Rs)
Trailer Design Certification	2,41,971/-
Hydraulic Testing	35,000/-
Metal Testing	87,500/-
<b>Total</b>	<b>3,64,471/-</b>

### International Journal/ Conference Papers/ Book Publication:

1. Dr. M. V. Tendolkaris published in the international journal of highest repute in the domain of cryogenic engineering. Title: Opposed piston Linear Compressor driven two-stage Stirling Cryocooler for cooling of IR sensors in Space application. Authors :K.G.Narayankhedkar, S.L.Bapat., M.D. Atrey, M.M. Lele, V.K.Bhojwani, M.V. Tendolkar, Asif Inamdar , Journal :Cryogenics, Vol. 83, (2017), pp. 71-7
2. Sainath A. Waghmare, Nitin P. Gulhane, "Design and ray tracing of a compound parabolic collector with tubular receiver" Solar Energy 137 (2016) 165–172.
3. Sainath A. Waghmare, Nitin P. Gulhane, "Flux concentration on tubular receiver of compound parabolic collector by surface areal irradiance method of ray tracing" Optik 136 (2017) 470–479.

### Seminars/Conference/Workshop Organized / activities co-coordinated

Name of Faculty	Area of Training	Venue	Duration	
			From	To
Dr Sanjay M G, Dr. M. V. Tendolkar	"Renewable Energy Source for Sustainable Development: Need, Technologies and Policies"	Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai funded by AICTE-QIP	04 <sup>th</sup> March 2016	09 <sup>th</sup> March. 2016
Dr. S. A. Mastud	Research Methodology	Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai funded by AICTE-QIP	04 <sup>th</sup> March 2016	09 <sup>th</sup> March. 2016

Dr. S. A. Mastud	Micro/Meso- Scale Manufacturing Technologies	Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai <b>GIAN Course</b>	08 <sup>th</sup> August 2016	12 <sup>th</sup> August 2016
Dr. V. M. Phalle	Industrial Tribology	Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai <b>GIAN Course</b>	04 <sup>th</sup> July 2016	08 <sup>th</sup> July. 2016
Dr. V. M. Phalle	Robotics for Human Movements Training	Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai <b>GIAN Course</b>	08 <sup>th</sup> August 2016	12 <sup>th</sup> August 2016
Dr. N P Gulhane,	Computational Fluid Dynamics	Mechanical Engineering Department, V.J.T.I. Matunga, Mumbai funded by AICTE-QIP	23 <sup>rd</sup> Feb 2016	28 <sup>th</sup> Feb 2016

#### Other activities of faculty-members at Institute level or outside institute-

- Dr. N P Gulhane, Dr V M Phalle, Dr S S Naik, Prof. G U Tembhare, Prof S S Barve attended GIAN course on Numerical Linear algebra for Engineering Courses at VJTI Mumbai.
- Dr. S. A Mastud and Dr M V Tendolkar coordinated Phd Colloquium in Department of Production Engineering on 15 Feb 2017. Dr S. P. Mahulikar has reviewed the Phd colloquium Posters.
- Mr. Umesh Gupta (Chairman VJTI Alumni), Dr. S. A. Mastud, Dr. D. K. Shinde, Prof. S. P. Gajre Visited Grind Master Machines Pvt. Ltd, Aurangabad. Latest NANOFINISH range of machines & Latest Robotic Automation Technology is showcased by Grinder master team to VJTI faculty members.
- Dr. S S Naik, Prof. G U Tembhare and Prof. S P Gajre attended the GIAN Program on ‘ADVANCES IN STRUCTURAL MECHANICS: THEORY AND DESIGN OF PLATE AND SHELL STRUCTURES’ at VJTI Mumbai.
- Dr. M. V. Tendolkar was invited to deliver an Expert Lecture in the domain of Refrigeration and Air Conditioning at Dr. Babasaheb Ambedkar College of Engineering and Research (DBACER), Nagpur on March 03, 2017 under the 3-Days Workshop on Heating, Ventilation and Air Conditioning (HVAC).
- Dr. A. V. Deshpande attended a Workshop on "CFD & Numerical Heat Transfer" organized by Indian Nuclear Society, Anushakti Nagar (BARC), Mumbai, India from 8th to 12th May, 2017
- Dr. A. V. Deshpande attended QIP Short Term course on “Computational Fluid Dynamics: Development, Applications & Analysis”, at IIT Bombay from May 29– June 02, 2017
- Dr. N. P. Gulhane has presented a paper in International conference on Computational Heat Mass & Momentum transfer organised by Korian Society for Fluid machinery & Korian society of Mechanical engineers.
- Dr. N. P. Gulhane, Prof. G. U. Tembhare, Prof. S. S. Barve Visited Force Motors Pvt. Ltd. Pune. They have interacted with Resource person from Force Motors and visited new developed facility in Force Motors.

#### Students Association activities:

AERO VJTI team secured **First rank** in Design report and **7th rank** overall in AIAA competition in USA. Society of Robotics and Automation (SRA) Team represented VJTI and received **1st prize** (Appathon

Event) In Smart Grid Forum (ISGF) national level competition organised by Tata Power in Netaji Subhash Institute of Technology (NSIT), Dwarka.

M.Tech (Machine Design) students attained a seminar on Astrobiology at Nehru Science Centre followed by the Visit to United India Digital exhibition.

TEAM MOTORBREATH of VJTI Racing represented Veermata Jijabai Technological Institute for the 5th time at the BAJA SAE INDIA 2017. The team Secured Overall **23<sup>rd</sup> National Rank**, Rank 3 in Suspension & Traction, Rank 9 in Sales Presentation, Rank 10 in Design Presentation, Rank 14 in Acceleration Event, etc.

SAE INDIA- VJTI Team holds 1<sup>st</sup> position in Acceleration Event, 5<sup>th</sup> position in Business Presentation, 7<sup>th</sup> in Maneuverability Test, Overall 7<sup>th</sup> Rank, etc. in Electric Solar Vehicle (ESVC-2016) event.

SRA VJTI (Team 1) got **1<sup>st</sup> Place** in International Phase and **2<sup>nd</sup> Place** in National Phase, in International Robotics Challenge (IRC) event at IIT BOMBAY.

SRA VJTI (Team 2) got **4<sup>th</sup> Place** in International Phase and **1st Place** in National Phase, in International Robotics Challenge (IRC) at IIT BOMBAY.

SRA VJTI Team got Consolation Prize in Innathon event in Smart Grid Forum (ISGF) national level competition organised by Tata Power in Netaji Subhash Institute of Technology (NSIT), Dwarka

Students who got the good score in GRE/ TOFEL Examination:

✚ Romil Agrawal (CAT: 96.94 Percentile)	✚ Darshit Dalal (GRE: 333/340)
✚ Satyam Avhad (CAT: 96.09 Percentile)	✚ Ritika Menghani (GRE: 331/340)
✚ Vinayak Nayak (CAT: 96.64 percentile)	✚ Mit Dhami (GRE: 325/340)
✚ Sakina Tinwala (CAT: 94.51 Percentile)	✚ Sagar Shetye (GRE: 327/340)
✚ Milay Haria (GRE: 322/340)	✚ Jewel Rodrigues (GRE: 325/340)
✚ Jay Patel (GRE: 315/340)	✚ Harsh Gehani (GRE: 325/340)
✚ Ketan Mhetre (GRE: 314/340)	✚ Mit Pandya (GRE: 312/340)
✚ Parth Kanakia (GRE: 321/340, TOFEL: 113/120)	

# ELECTRICAL ENGINEERING DEPARTMENT

## Departmental Overview:

The Electrical Engineering Department is the largest department in the institute consisting of:

- i) U.G. (3 programs-B.Tech.-Electrical, Electronics, Electronics & Telecomm.)
- ii) P.G. (4 programs- M.Tech. - Electrical-Power & Control, Electronics, Electronics & Telecomm.)
- iii) Ph.D. (2 programs- Electrical& Electronics). At present there are 52 students registered for Ph.D.
- iv) Diploma (2 programs- Electrical & Electronics).

It is recognized for doctoral research heritage and competent faculty members in many diverse fields. The Department has laboratories needed for the teaching and practical experiments of various courses stated above. Apart from the regular teaching of diploma, UG and PG courses, the department has excellent industry institute interaction. It has developed state of art - High Voltage Laboratory due to generous funding by Siemens (Germany) and All India Council for Technical Education (AICTE). This laboratory caters to various testing needs of industry, carries out consultancy & research for industries and Government organizations. The Department has recently developed state of art VJTI- L&T Low Voltage Switchgear Laboratory to bridge the gap 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. Under TEQIP program it has procured equipment for Communication, Virtual Instrumentation (A new laboratory of Virtual Instrumentation is developed under TEQIP I), Control System, DSP.

The vision of the Department is to strengthen the Diploma, UG & PG programs by bridging the gap between academics and industry, increase the research with adequate sponsored projects and industry - institute interaction.

**Year of establishment:** 1900 (Started with Diploma in Electrical Engineering)

## Programs offered in Engineering:

Course	Commencement year	Intake	Duration in years
B. Tech. (Electrical)	1947	60	4
B. Tech. (Electronics)	1986	60	4
B. Tech. (Electronics & Telecomm.)	2010	60	4
M. Tech. (Electrical Control)	1955	25	2
M. Tech. (Electrical Power)	1955	25	2
M. Tech. (Electronics)	1986	25	2
M. Tech. (Electronics & Telecomm.)	2005	25	2
Diploma (Electrical)	1900	60	3
Diploma (Electronics)	1985	60	3
Ph.D (Electrical)	At present there are 52 students registered for Ph.D		
Ph.D (Electronics)			

**Total number of students in the department = 1662 (Approx.)**

## Faculty List-

### Regular (with designation) & Contractual

Sr.No	Name of the faculty	Designation
<b>Regular faculty</b>		
1.	Dr. R. N. Awale	Head of the department & TEQIP coordinator.
2.	Dr. R. D. Daruwala	Professor and Dean (AP)
3.	Dr. M. S. Panse	Professor & Dean (Faculty)
4.	Dr. H. A. Mangalvedekar	Professor
5.	Dr. N. M. Singh	Professor
6.	Dr. Faruk. A S. Kazi	Professor & COE coordinator
7.	Prof. R.D.Sahani	Associate Professor
8.	Prof. S. J. Bhosale (On Deputation)	Associate Professor
9.	Dr. A. N. Cheeran	Associate Professor
10.	Prof. P. B. Borole	Associate Professor
11.	Prof. J. O. Chandle	Associate Professor
12.	Prof. Amutha Jeyakumar	Associate Professor
13.	Prof. H.B.Choudhary	Associate Professor
14.	Prof. R. A. Patil	Asst. professor
15.	Dr. S.R. Wagh	Asst. professor
16.	Prof. D. P. Rathod	Asst. professor
17.	Prof. Krishna Kanakgiri	Asst. professor
18.	Prof. Pragati Gupta	Asst. professor
19.	Prof. P. K. Tejani	Diploma In charge Head ( Electronics)
20.	Prof. S.T. Sawant	Diploma In charge Head ( Electrical)
21.	Prof. Asha Sharma	Lecturer-selection grade
22.	Prof. S. R. Yadwad	Lecturer-selection grade
23.	Prof. S. K. Bhil	Lecturer-senior scale
24.	Prof. Jyoti Gondane	Lecturer
25.	Prof. Yogesh Wankhede	Lecturer
26.	Prof. Vikram Kehri	Lecturer
27.	Prof. Ami Dapkawala	Lecturer
28.	Prof. Rahul Ingle	Lecturer
<b>Contractual</b>		
29.	Ms. Maneesha Naresh	Lecturer
30.	Mr. Rizwan Ahmed	Lecturer
31.	Mr. Viresh Patel	Lecturer
32.	Mr. Suhas Waghmare	Lecturer
33.	Mr Milin Nagpure	Lecturer
34.	Mr. Sandip Sukdeve	Lecturer
35.	Mr. Deepanshu Gupta	Lecturer
36.	Mrs Akansha. Chouhan	Lecturer
37.	Mr. Vishal Gadhave	Lecturer
38.	Mr Pankaj Wakhradkar	Lecturer
39.	Ms. Amruta Kulkarni	Lecturer
40.	Ms. Laly Saman	Lecturer
41.	Mr. Sandeep Soni	Lecturer
42.	Mr. Udayan Kamble	Lecturer
43.	Ms. Rashmi Wadd	Lecturer

44.	Ms. Priti Singh	Lecturer
45.	Dr. Ushma Ahuja	Lecturer
46.	Mr. Vivek Ramkrishnan	Lecturer
47.	Ms. Sneha Ghorpade	Lecturer
48.	Mr. Tanmai Banglorekar	Lecturer
49.	Ms. Mr Bhushan Pawar	Lecturer
50.	Ms. Riya Saini	Lecturer
51.	Mr. Najib Ghatte	Lecturer
52.	Mr. Raghuramchandra	Lecturer
53.	Mr. Rupesh Ingle	Lecturer
54.	Ms. Madhuri Tayde	Lecturer
55.	Ms.Megha Fernadis	Lecturer
56.	Ms. Anjali Shukla	Lecturer
57.	Ms. Shilpa Mahajan	Lecturer
58.	Mr. Mitesh Jain	Lecturer
59.	Mr. Vijay Galshetwar	Lecturer
60.	Mr. Tushar Jankar	Lecturer
61.	Mr Prabhakar Pande	Lecturer
62.	Ms. Sanheeta Bhagwate	Lecturer
63.	Mr. Zeeshan Ali	Lecturer
64.	Ms Arpan Shah	Lecturer
65.	Ms Supriya Kamble	Lecturer
66.	Ms Amisha Mestry	Lecturer
67.	Ms. Sheetal Rana	Lecturer
68.	Ms. Pritika Patil	Lecturer
69.	Ms. Dhanshree Thulkar	Lecturer
70.	Ms.Manali Patel	Lecturer
71.	Mr. Abhishek Barve	Lecturer
72.	Ms. Ashwini Bhise	Lecturer
73.	Mr. Ganesh Gojare	Lecturer
74.	Mr. Shrinivas Panchal	Lecturer

**Total no. of faculty = 74**

**Non-Teaching:**

Sr. No.	Name	Designation
1.	S.R. Ahire	Instructor
2.	P.S. Rane	Instructor
3.	J.R. Lad	Instructor
4.	S.G. Manjrekar	Lab. Assistant
5.	N.D. Belnekar	Lab. Assistant
6.	M.P. Ghadi	Lab. Assistant
7.	S.D. Mayekar	Lab. Assistant
8.	T.V. Chaphekar	Lab. Assistant
9.	C.G. Khaire	Asst. Wireman
10.	S.P. Muthe	Asst. Wireman
11.	A.V. Salunkhe	Asst. Wireman
12.	P.R. Tanawade	Lab. Attendant
13.	S.P. Ghorpade	Lab. Attendant
14.	M.K. Parkar	Lab. Attendant
15.	M.S. Naik	Lab. Attendant
16.	A.K. Kesarkar	Lab. Attendant
17.	S.S. Daple	Lab. Attendant

18.	D.B. Gare	Lab. Attendant
19.	R.K. Tatkare	Lab. Attendant
20.	S.J. Kadam	Lab. Attendant
21.	S.M. Mahadik	Lab. Attendant
22.	D.D. Shivsharan	Hamal
23.	P. C. Satam	Hamal
24.	M.P. Mahadik	Clerk/Typist

### Infrastructure available –

#### a) Laboratories & Facilities

Department of Electrical and Electronics engineering has laboratories equipped with the most modern equipments and test facilities.

Sr. No	Laboratory	Special Instruments	Year of up gradation	Sponsor
1	High voltage lab	High Voltage Testing Transformer with Control Panel	2004	Siemens, AICTE & VJTI
		Impulse Generator and Measuring System		
2	Low Voltage Switchgear Lab (VJTI-L&T)	Switchgear Modules	2012	L & T & VJTI
3	Dynamic & Control System Lab	MATLAB, Control Modules	2010	VJTI & TEQIP
4	Control and Instrumentation Lab	PC based Instrumentation Trainer with Sensors and Accessory Cables	2009	
5	Industrial Electronics Lab	IE Modules	2009	
6	Analog Integrated Circuits Lab	DSO, ADC/DAC interface	2009	
7	Digital Signal Processing Lab	DSP Starter Kits	2009	
8	Biomedical Engineering Lab	NI Academic License LABVIEW & Biomedical Modules	2009	
9	Robotics Lab	Flexible & Scalable Robotics Development Platform NI Lab VIEW Robotics Starter Kit for Prototyping Swarm Robotics Research Platform Legged Locomotion Development Platform Quad-Copter- Fully Featured UAV Development Platform	2009	
10	Very Large Scale Integration (VLSI) Lab	VLSI Design Xilinx Foundation series	2010	
11	Microprocessor Lab	$\mu$ P & $\mu$ C Training Kit	2011	



12	Virtual Instrumentation Lab	NI Academic License LABVIEW, NIELVIS	2009	
13	Electrical Circuits & Measurement Lab	Various Modules, DSO	2009	
14	Power Electronics Lab	Various Modules	2009	
15	Communication Lab	100 MHz DSO, RF Generator, FM TDM, PAM, PCM Kit, Spectrum Analyzer(20MHz-6.7GHz), Logic Analyzer(136 Ch 8GHz) VNA(300k-8GHz), Function Generator(240MHz), Network Analyzer, V Signal Generator(6GHz), Handheld Spectrum Analyzer FSH6(10K-6GHz)	2009	
16	Microwave Lab	Microwave test Bench(Klystron Source), Microwave test Bench(Gunn Diode), AMITEC MIC Kit (MIC 20 SBAND), RADAR TRAINING Lab DXR10, AMITEC Make Antenna ATS20, SCITEC Make Antenna trainer ST2261	2013	VJTI & TEQIP
17	Digital Communication	Digital Communication Modules	2013	
18	Wireless Communication	Wireless Sensor Network hardware module(Sensor node 3) with Netsim Software	2013	
19	Electrical Machine Lab - I	DC & AC machines & Transformer	2008	
20	Electrical Machine Lab - II	Dissectible Machines System, Synchronous & Induction Machines	2009	
21	Computational Electromagnetic Lab	Magic MOU- PIC Simulation software	2012	
22	Biomedical Instrumentation Lab	<ol style="list-style-type: none"> <li>1) Advance Research Instrument for Dermal Analysis &amp; Testing &amp; Calibration setup on Lab-view Platform</li> <li>2) Image Processing Instrumentation &amp; Principle Demonstration Platform for radio Imaging Application.</li> <li>3) PC Based Universal Biomedical Instrumentation with Simulator</li> <li>4) PC Based Respiratory Gas Analysis System</li> <li>5) Human Demonstrative System</li> <li>6) Biomedical Measurement Trainer</li> <li>7) Biomedical Treatment Simulator and Measurements</li> <li>8) Biomedical Wireless Monitoring Devices Demonstrative Set up</li> </ol>	2014-15	

## Achievements

No	Faculty/Students involved	Achievement	Dates
<b>Faculty</b>			
1	N. M. Singh and S. R. Wagh	Three posters presented in National Science Foundation Site Visit Meeting (NSF-SVM 2016) at Florida, USA for presenting Tufts-VJTI collaborative research outcomes.	2 June 2016
2	N. M. Singh and S.R. Wagh	IEEE PES General Meeting two papers published and posters presented at Boston, MA, USA	18 July 2016
3	S. R. Wagh, S. K. Bhil and N. M. Singh	Research paper accepted for Lecture session at 2016 North American Power Symposium (NAPS), to be held in Denver, USA.	18-20 Sept.2016
4	Krishna Kanakgiri	PhD admission at EE dept, IIT Bombay under QIP	05/05/2016
<b>Student</b>			
	Students involved	Achievements	Dates
1	Ragini Meshram	Attended and presented posters at NSF-SVM 2016 at Florida, USA for Tufts-VJTI collaborative research outcomes.	2 June 2016
2	Samidha Kulkarni Madhavi Parimi	IEEE PES General Meeting two papers published and posters presented at Boston, MA, USA	18 July 2016
3	Uday Mumbaikar	Research paper accepted for Lecture session at 2016 North American Power Symposium (NAPS), to be held in Denver, USA.	
4	Abhimanyu Gaonkar	Research paper accepted for Poster session at 2016 North American Power Symposium (NAPS), to be held in Denver, USA.	

## Visits of dignitaries/committees

Activity description	Brief details	Dates
Invited Prof S. C. Srivastava, Electrical Engineering Department, IIT Kanpur visited VJTI to inaugurate one week workshop on Recent Trends in Power Systems.	Prof S. C. Srivastava has a huge experience in the field of power systems. He was former Deputy Director of IIT Kanpur. He serves as an expert on the panel of DST and CPRI committees for power systems.	15 <sup>th</sup> and 16 <sup>th</sup> May,2016

## Developmental Activities:

Area	Brief details	Sponsor	Amount
<b>Laboratory development</b>			
New lab setup	Setting up of Virtual Instrumentation Laboratory (2009)	World Bank TEQIP-I	
	Development of Virtual Instrumentation Laboratory (2013)	World Bank TEQIP-II	
	Arduino embedded lab	Nil	2,00000=00
Modernization of labs	Intel Galileo Board version 2.0 – 20 Nos. (Donated)	Intel Corporation USA	Aprox Rs. 1,80,000 INR

## Research Resources

Sr. No.	Project Title	Project Duration	Amount Received	Funding Agency	Number of Faculty involved
1	Center of Excellence in 'Complex and Nonlinear Dynamic System' (Prof Faruk S. Kazi & Prof. N. M. Sing)	03 years	500 Lakhs	World bank TEQIP Grand	7
2	A System Theoretic Approach For Grouping & Sequencing the Execution of Component Model for Adapting Parallel Processing in Large Process Simulation Tool. (Prof Faruk S. Kazi)	03 years	20.283lak h	BRNS	2+ 1 Ph. D
3	Development of Electromagnetics lab (Prof. N. M. Singh)	3 years	48 lakhs	BARC	2+ 1 Ph. D
4	Development of Peaking Switch and Characteristics of Marx- Generator (Prof. H. A. Mangalvedekar)	3 years	22 Lakhs	Board of Research in Nuclear Sciences (BRNS)	1+2 Ph. D Student
5	Study & PIC Simulation of High Power Microwave Devices (Prof. N. M. Singh)	3 years	18 Lakhs	Board of Research in Nuclear Sciences (BRNS)	2+1 Ph. D Student
6	Modernization & Removal of Obsolescence for Embedded Systems Laboratory (Dr. R. D. Daruwala)	02 years	9 Lakhs	AICTE	01
7	Analysis of Partial Discharge for the Detection of Degradation And Physical Interpretation of Voids in a HV Insulation System (Dr. A. N. Cheeran)	02 years	13 Lakhs	AICTE	2 + 1 Ph.D
8	Running Smart Grid Algorithms on Cloud Computing Architecture- Issues in Security of Real Time Data in a Cyber –Physical Environments (Prof. Faruk S. Kazi)	03 years	184 Lakhs (with IIT Madras)	Information Technology Research Academy Department of IT	4
9	Development of Biomedical laboratory (Dr. R. N. Awale)	02 years	500 Lakhs	State Government	4+5 Ph.D
Total		1314.283 Lakhs			

## Revenue Generated:

Technical Test Fees	Major Clients	Amount (Rs)
Digital cable testing	Zenium cables ltd	50,000=00
Hearing Aid machine testing	Z. P. Thane	15000=00
Training and HV Testing	GE Shipping ,B.P. Marine Anglo Eastern and industrial customers for insulation testing	12,00,000
Testing	New edge fireman act NCPA Reliance infra structure.	1,48,285/-
Total		15,48,285

## CONFERENCES/SEMINARS/SYMPOSIUMS/TRAINING ATTENDED

Faculty staff involved	Title of Conference	Training Program Attended
Dr. M.S.Panse	FDP on Pedagogy Skills Development	VJTI, Dec 2015
Prof. P.B. Borole	Advance Pedagogy and Managing Learning Process	National Institute of Technical Teachers Training and Research Bhopal Nov-Dec 2015
Prof. H.B. Chaudhari		
Prof. A N Cheeran	Advance Pedagogy and Managing Learning Process	One week from 30-11-2015 to 4-12-15 at V J T I, conducted by NITTR, Bhopal
Prof J. O. Chandle	Advanced Pedagogy & Managing Learning Process	December 2015
	High Voltage & Partial Discharge	March 2016
Prof. Amutha Jeyakumar	Advance Pedagogy and Managing Learning Process	Organized by National Institute of Technical Teachers Training and Research, Bhopal. 30 <sup>th</sup> Nov2015 to 4 <sup>th</sup> Dec2015, at VJTI
Prof. Rajesh Patil	GEO-MATRIX, 12	IITB MUMBAI
	(ii) Workshop on Wavelets	By BATU at IITB.
Prof. Krishna Kanakgiri	One week QIP workshop on 'Renewable Energy Source for Sustainable Development: Need, Technologies and Policies'	VJTI, 14 <sup>th</sup> -18 <sup>th</sup> Dec, 2015
	Indian Control Conference	IIT Hyderabad, January 2016
	International Conference on Power Systems	IIT Delhi, March 2016
Prof. Mr. Yogesh Wankhede	Biomedical Instrumentation And Signal Processing	AICTE sponsored FDP
Prof .Mrs. Ami Parixit Brahmhatt	Advanced Pedagogy and managing the learning process	Nov-2015, one week TEQIP-II sponsored FDP by NITTR Bhopal, organized by VJTI, Mumbai
Prof .Jyoti Gondane	AICTE Sponsored Two Weeks Faculty Development Programme on Embedded System Development Using DSPs	20th May - 31st May 2013
	Induction Programme for Faculty	VJTI, Mumbai 31/12/2014 to 1/01/2015
	Pedagogical skills development	VJTI Mumbai 09/02/2015 to 13/02/2015
Prof Rahul Ingle	Training on Data analysis	Infosys Pune
	Filter Design and implementation	ITIE Banglor
	Biomedical Instrumentation And Signal Processing	AICTE sponsored FDP
	RF & Microwave Antenna Design	AICTE sponsored FDP
	High Voltage Engg	AICTE sponsored FDP
Prof. Vikram Kehri	Biomedical Instrumentation And Signal Processing	AICTE sponsored FDP
	RF & Microwave Antenna Design	AICTE sponsored FDP
	High Voltage Engg	AICTE sponsored FDP

## Seminars/Conference/Workshop Organized / activities co-coordinated

Faculty involved	Title of Workshop	Organizer, Year
Dr. M.S.Panse	FDP on Pedagogy Skills Development	VJTI, Dec 2015
	FDP Induction Program for newly joined faculty	VJTI, Jan 2016
	Arranged Industrial Visits & Internship of Students	

	to i) SAMEER ii)BARC iii) Centre for Nanotech, IIT Mumbai iv) Industries, Godrej, Univision etc. v) Automation Exhibition, Mumbai.	
Dr. N. M. Singh, Dr. F. S. Kazi	Recent Trends in Power Electronics, Drives and Storage Technologies for Emerging Applications	Larsen and Toubro, Electrical and Automation 5-9 Oct, 2015
Prof. Krishna Kanakgiri Dr. H. A. Mangalvedhekar	One week workshop on High Voltage & Partial Discharge	AICTE under QIP, March 2016
	One Week workshop on Recent Trends in Power Systems. 30 Engineers from MSETCL participated.	CoE-CNDS, TEQIP-II, May 16
Mrs. Ami Parixit Brahmbhatt (Dapkawala)	Advanced Pedagogy and managing the learning process	Nov-2015, one week TEQIP-II sponsored FDP by NITTTR Bhopal, organized by VJTI, Mumbai
Prof Rahul Ingle Prof. Vikram Kehri	Biomedical Instrumentation And Signal Processing	29 <sup>th</sup> Feb-5 <sup>th</sup> March 2016 AICTE sponsored FDP organized by VJTI, Mumbai
	RF & Microwave Antenna Design	8 <sup>th</sup> -13 <sup>th</sup> March 201`6
	High Voltage Engg	14 <sup>th</sup> – 20 <sup>th</sup> March

### MOUs / Collaboration

Sr. No	MOU	Co-coordinator	Outcome
1.	MOU-VJTI-SAMEER	Dr. Panse	<ul style="list-style-type: none"> <li>Joint training programs</li> <li>Joint research and publications</li> <li>Internship 4 PG students per year</li> </ul>
2.	MOU-VJTI-Univision Softech Pvt. Ltd.	Dr. Panse	<ul style="list-style-type: none"> <li>Joint training programs</li> <li>Joint research and publications</li> <li>Internship 4 PG students per year</li> </ul>
3.	MOU-VJTI-Vitronics	Dr. Panse	<ul style="list-style-type: none"> <li>Joint training programs</li> <li>Training of supporting staff.</li> <li>Internship of PG students</li> </ul>
4.	BARC	Dr. N.M. Singh	Centre on Computational Dynamics functioning with Computational Fluid Dynamics
5	PORTESCAP INDIA PVT LTD	Dr. Sushama Wagh	Centre of Excellence in Complex and Nonlinear Dynamical Systems
6	DAE BRNS	Dr. H.A. Mangalvedekar	Development of Peaking switch and Characterization of Marx Generator
7	MERC TPC-D SLDC	Dr. H.A. Mangalvedekar	Transmission Outlets from Rinfra Transmission System
8	MERC	Dr. H.A. Mangalvedekar	The technical aspects and commercial impact on the consumer due to the conversion of 66KV system
9	BRNS	Dr. Faruk Kazi	A system theoretic approach for grouping and sequencing the execution of components models for adapting processing in large process simulation tool
10	Larsen and Toubro		Low Voltage Switch Gear Laboratory
11	BARC	Dr. N. M. Singh	Joint Research Program in the Field of Computational Dynamics
12	DAE BRNS	Dr. N. M. Singh	PIC Simulation Study of HPM sources: Elativistic Magnetron and vircators

13	Larsen and Toubro	Dr. Farukh Kazi & Dr. N.M. Singh	Innovation centre & creation of joint research facilities
14	Stelmec Ltd	Dr. Faruk Kazi	Joint product development & Research collaboration
15	CEEP	Prof. Sanjay M Gopal	Sustainable development in rural areas of India
16	India smart grid forum	Dr. Faruk Kazi	Development of a joint research facility in the field of smart grid
17	Siemens	Dr. H.A. Mangalvedekar	High voltage laboratory
18	BARC		CFD simulation of plasma dynamics and liquid metal flow system
19	BARC	Dr. N. M. Singh	Joint research program in the field of computational dynamics
20	BARC	Dr. N. M. Singh	Development of a joint research program in the field of computational dynamics
21	IIT-M	Dr. O.G. Kakde	MoU between VJTI and Indian Institute of Technology Madras
22	IIT-B	Dr. O.G. Kakde	MoU between VJTI and Indian Institute of Technology Mumbai
23	EECI	Dr. O.G. Kakde	Mou between VJTI and European Embedded Control Institute
24	BIBBY Ship Management	Haresh Choudhari	Training of Marine Engineers
25	B.P Marine Academy	Haresh Choudhari	H.V. Safety and H.V. Technology Course for Marine Engineers
26	The Great Eastern Institute of Maritime Studies	Haresh Choudhari	H.V. Theory Lectures and Practicals for ETO-8
27	The Great Eastern Institute of Maritime Studies	Haresh Choudhari	H.V. Training for ETO
28	The Great Eastern Institute of Maritime Studies	Haresh Choudhari	H.V. Classes GME-27
29	EATON	Haresh Choudhari	H.V. Testing
30	Emerson	Dr. Faruk Kazi	MoU between VJTI and Emerson
31	Stelmec	Dr. Faruk Kazi	MoU between VJTI and Stelmec

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- Dr. H. A. Mangalvedekar, Barun Kumar Dash, *Active Front End Inverter Modelling using Classical Averaging Method for Bi- Directional Power Flow*, IEEE international Conference on computation of power, energy, information and communication Chennai
- Dr. H. A. Mangalvedekar, Barun Kumar Dash, *Field Oriented Control Of Active Front End Induction Motor Drive*, IEEE international Conference on clean energy and power London
- Dr. H. A. Mangalvedekar, Vivek kumar Dubey, Girish Jawale, *Impact Of Adding New Generator In A Loop Network With Optimal Place SFCL*, IEEE International Conference
- Dr. H. A. Mangalvedekar, Vivek kumar Dubey, Girish Jawale, *Feasibility Analysis For Optimal Placement Of SFCL In A Loop Network: A Case Study*, IEEE International Conference
- Dr. H. A. Mangalvedekar, Prof Krishna Kanakgiri, Vivek kumar Dubey, Girish Jawale, Akansha Jain, *Limiting Fault Current in a Power System Network by SFCL:A step input approach*, IEEE International Conference on Power Systems, IIT Delhi, March 2016

- Dr. H. A. Mangalvedekar, *Optimization Of Radio Frequency Feeder Electrodes Of DC Accelerator*, IEEE International Conference, Chennai
- Dr. H. A. Mangalvedekar, *Optimization Of Electric Stresses In High Voltage System Of DC Accelerator*, IEEE International Conference, Bangalore
- Dr. R.D.Daruwala, Sunayana Jadhav, *Fusion Model for Statistically Dependent Observations in Wireless Sensor Networks*, IEEE International conference on computing, communication and automation, April 2016
- Dr. R.D.Daruwala, Sunayana Jadhav, *3-D Modeling of Statistical Dependencies using Copulas for Wireless Sensor Network*, IEEE International conference on Wireless, Signal Processing and Networking, March 2016
- Dr. R.D.Daruwala, Nitika Rai, *Comparison Of Optimum Density Of Sensor Nodes Required For Desired Coverage In A Realistic Scenario Using Sensing Models*, IEEE International Conference on Computational Techniques in Information and Communication Technologies (ICCTICT) March 2016
- Dr. R.D.Daruwala, Winnie Thomas, *Scaling number of cores in GPGPU: A comparative performance analysis*, IEEE International conference on Advances in Computing, Communications and Informatics (ICACCI), August 2015
- Dr. R.D.Daruwala, Winnie Thomas, *A Comparative Analysis Of Resource Requirements For Parallel Applications In GPGPU*, TENCON 2015-2015 IEEE Region 10 Conference ,November 2015
- Dr. R.D.Daruwala, Winnie Thomas, *Investigations Into Techniques To Accelerate Memory Intensive GPGPU Applications*, Annual IEEE India Conference (INDICON),December 2015
- Dr. R.D. Daruwala & Yamini Gajbhiye, *RSS-Based Spoofing Detection and Localization Algorithm in IEEE 802.11 Wireless Networks*, International Conference on Communication and Signal Processing, April 6-8, 2016, India
- Dr. R D Daruwala, Neha Pareek, Ankur Agrawal, *A Review on Detecting and Transmitting Events with Wireless Sensor Networks in Logistics*, International Conference on Communication and Signal Processing, April 6-8, 2016, India
- Dr. R.D Daruwala, Shailaja Sasi, *A Hybrid Vertical Handoff Decision Algorithm for Seamless Mobility in Heterogeneous Wireless Networks*, IEEE International Conference on Wireless Communications, Signal Processing and Networking,23-25 March 2016, India

### Books Published:

Faculty involved	Title of Book	Name of publisher, year & month
M. Maiti, N. Singh and S. Wagh	PIC Simulation and Analysis of an Axial Vircator Using MAGIC, Electromagnetic and Plasma Application	LAP LAMBERT Academic publishing, Sep 2012.
S. R. Wagh	Power System Transient Stability Enhancement	LAP LAMBERT Academic Publishing, May 2013, ISBN-13-978-3-659-32706-3
Pragati Gupta	Modular Load Flow for Restructured Power Systems	Springer , April 2016

### Activities by PhD Scholars

Sr. No.	Name of PhD candidate	Activity
1	Shrugal Vardhe	IEEE Student Membership
2	Sachine Uंबरkar	Got 1 <sup>st</sup> prize in state level Research convention

### Other activities at Institute level or outside institute –

#### Dr. M. S. Panse

1) Dean- Faculty from Sept.2014 & Ex-HOD of Electrical Engineering Department	2) Chairperson- Internal Complaints Committee (ICC).
3) Chairperson- Faculty Grievance Redressal Committee	4) Chairperson & Member of many institute level committee

5) Examiner of M.Tech & Ph.D at other university	6) Fellow of Institution of Engineers (India)
7) Fellow of I.E.T.E.(India)	8) Life Member – I.S.T.E.
9) Life Member – Biomedical Engineers Society of India	

**Dr. N.M. Singh**

1) CoE-CNDS Principal investigator
2) Dean Student Academics.

**Dr. S. R. Wagh**

1) In-charge Scrap committee	2) PhD Coordinator
3) CoE-CNDS member	

**Prof. P.B. Borole**

1) Coordinator of ME/MTech admission 2013 – 14 DTE ARC centre	2) Coordinator of MTech (Electronics) Project
3) Departmental representative of library committee.	

**Prof. Krishna Kanakgiri**

1) Department Coordinator for M.Tech Admissions 2015-16	3) Department Coordinator for Regular post recruitment March 2016.
2) NBA committee member for M.Tech (Power Systems/Control Systems). Both PG courses got accredited for 5 years as per NBA letter No. F. No 28-181-2010 dated 27/10/2015.	

**Dr. R. D. Daruwala**

- 1) Nominated as Teacher Representative on Board of Governors of VJTI

**Dr. H. A. Mangalvedekar**

1) PG control & power NBA Accreditation for 5 yr 1 <sup>st</sup> July 2015	2) Prepared presentation for BOG
3) Guided 6 M.Tech and 2 Ph.D Students	4) Activemember of COE/CNDS
5) Revision for IEEE Pharma science	

**Prof. P K Tejani**

1) Printing Officer in Diploma In Semester Test & End Semester Examination	2) Member of Diploma Examination Committee
3) Department Diploma Time Table Coordinator	4) Member of IAEC (Internal Academic Examination Committee)
5) Member Secretary of Electronics Course Programme Board of Studies (PBOS)	

**Prof. S.T.Sawant**

1) Member Secretary – Programme Board Of Studies (PBOS) committee for Electronics DEInE Course	2) Diploma R-2013 Revised New Syllabus Coordinator for DEE course
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**Prof. Amutha Jeyakumar**

1) Member Secretary -Department Academic Committee (Electronics)	2) Member Secretary –Board of Studies (Electronics)
3) PG syllabus revision coordinator for Electronics	4) UG syllabus revision Committee member

**Prof. S. K Bhil**

1) Lab-inchrge of VJTI- L&T Low Voltage Switchgear laboratory	2) Member of PBOS
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3) Member of Syllabus revision committee (2013)	4) Admission In-charge of Direct Second year Diploma admission 2012-13
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**Prof. Rajesh Patil**

1) Member of Exam-section software team
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**Prof. A N Cheeran**

1) Departmental Coordinator for Ph. D (Electrical).	2) DSP lab in-charge
3) Member Secretary DAC Electrical	4) Member Secretary BOS Electrical
5) Committee member for Ph. D. Colloquium March 16	

**Prof. J. O. Chandle**

1) Time table Coordinator	2) Work load calculation for dept. as and when required by DTE / Dean Faculty
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**Prof. D.P.Rathod**

1) Mentor for wipro	2) Observer for AICTE cmat Exam
3) Mseb exam Pannel	4) Mentor for B.Tech Final year
5) M.Tech Admission	6) DAC member
7) Project guide (M.Tech & B.Tech)	

**Prof. Ami Parixit Brahmhatt**

1) Diploma Syllabus – DEE and DELnE courses (R-17) - Member.	2) Diploma Course Registration – Coordinator.
3) PBOS committee – Member Secretary	4) Digital Communication Lab – Lab Incharge.
5) III DELnE – Class Coordinator.	6) Registration Incharge.

**Prof. Jyoti Gondane**

1) Diploma Electronics Department Committee Program Board of Studies (PBOS) – Member	2) Departmental, Purchase Committee Active Member
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**Prof Rahul Ingle**

1) Diploma Admission work	2) MST coordinator 2012 for electronics Diploma
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**TEQIP Activities**

**i) Procurement chart**

Sr No	NAME	Article	TEQUIP NO	Cost
<b>CONTROL SYSTEM</b>				
1	<b>Dr. F.Kazi</b>	Legged Locomotion Development Platform	TEQUIP II Elect/March-2013/03 Elect/EC1-78/2013/1-2	287830
2	<b>Dr. F.Kazi</b>	Swarm Robotics Research Platform	Elect/EC-1-79/2013/1	365625
3	<b>Dr. F.Kazi</b>	Lego	Elect/EC-01-83-025-31	314778
4	<b>Dr. F.Kazi</b>	Flexible and scalable Robotics Development Platform	01-07-2013	274236
5	<b>Dr. F.Kazi</b>	NI LabVIEW Robotics Starter Kit (DaNI)	Elect/EC-1-84/2013/1-2	238454
6	<b>Dr. F.Kazi</b>	NI ELVIS II, Power cord, Biosignal controlled Servo motor board for Robotics	09-10-2013	434400

7	<b>Dr. F.Kazi</b>	Quad -Copter - Fully Featured UAV Development Platform Open source Plate, Carbon fiber cage	Elect/EC-1-85/2013/1	423900
<b>Total</b>				<b>2339223</b>
<b>POWER SYSTEM</b>				
8	<b>Dr Sushma Wagh</b>	Computational simulator hardware	Elect8/PO68/EQP/ May 14/59	545000
9	<b>Dr Sushma Wagh</b>	<b>RT lab Software</b>	EC-1-94/01	840434
10	<b>Dr Sushma Wagh</b>	RT lab Fast Io	EC-01-95-01	591231
<b>Total</b>				<b>1976665</b>
<b>ELECTRONICS</b>				
11	<b>Dr A.N. Cheeran</b>	Bioinstrumentation Hardware	Elect/ EC- 1-80/0-9/2013	<b>530364</b>
12	<b>Dr A.N. Cheeran</b>	academic DSP bundle and NI my DAQ	Elect/TEQUIP II DSP-40/1/2013	<b>580286</b>
<b>Total</b>				<b>1110650</b>
<b>ELECTRONICS AND TELECOMMUNICATION</b>				
13	<b>Dr Amuta Jeyakumar</b>	Wireless and sensor network hardware	Elect/COMM-33-17/2013	484245
14	<b>Dr Amuta Jeyakumar</b>	Advanced Mobile communication modules with Zigbee development system	Elect/COMM-38-20/1/14	747731
<b>Total</b>				<b>1231976</b>
15	<b>Dr Sarwade</b>	Microwave integrated ckt lab	Elect/Comm-30-14/1/2013	939375
16	<b>Dr Sarwade</b>	Advanced communication module	Elect/COMM-34-17-1-5/2013	81563
17	<b>Dr Sarwade</b>	Spartan Development Board	Elect/VLSI-13/2013	486355
<b>Total</b>				<b>1507293</b>
<b>LEARNING RESOURCES</b>				
18	<b>Krishna Kanahgiri</b>	NI academic site licence	TEQUIP II/Elect/Sept-2013/18	525829
19	<b>Krishna Kanahgiri</b>	Interactive Smart Boards Large	22-08-2013	210000
20	<b>Krishna Kanahgiri</b>	Interactive Smart Boards Small	22-08-2013	240000
<b>Total</b>				<b>975829</b>

**ii) Number of TAs & RAs under TEQIP  
Reaching Assistantship under TEQIP**

<b>Year</b>	<b>Branch</b>	<b>M. Tech</b>	<b>Ph. D.</b>
2012 – 13	Electrical (Control)	05	-
	Electrical (Power)	01	01
	E & TC	04	-
2013 – 14	Electrical (Control)	02	01
	Electrical (Power)	01	-
	Electronics	04	01



### iii) Industry interaction program

Topic	Speaker	Date	Coordinator	No of participants	No of hours of training	outcomes
Seminar on Embedded system	Mr. Gill (Director of GILL) Instruments	01/10/13	Prof. P. B. Borole	40	2	Students were encouraged to further enhance their knowledge and skills in the field of microcontroller
IS code and Standards of AC Motors	Mr. Prasad Hardikar (Manager, Siemens Ltd Thane)	20/01/16	Prof. Yogesh wankhede	120	3	Students gain the knowledge regarding IS code and Standards of AC Motors
Biomedical Signal Processing	Mr. Abhinav Managing Director Cardea labs and cardea biomedical tech. pvt. Ltd.	28/01/16	Prof. Rahul Ingle	120	3	Knowledge regarding biomedical signals
Role of Electronics in moving from science	Mr. Sanjay Khemkar Ex. GM Technical BSNL	11/02/16	Prof. Ami Dapkawala	120	3	Students enhance their knowledge in Electronics technologies

### iv) Training (Nonteaching Staff)

Name of the participant	Topic	Duration (days)	Date	Agency	Coordinator	Outcome
P.S.Rane S.G. Manjarekar A.K. Kesarkar D.B. Gare P.C. Satam	Computer Awareness & MS Office	11	8/7/13 to 19/7/13	ATI	Dr.M.S.Panse	To upgrade skills
All Nonteaching staff	In house course on Electronic Instruments	1	25/9/13	Tektronix	Dr. Panse Prof. Chaudhari	To upgrade skills
Sandeep Dattaram Mayekar (Lab Assistant)	AC Electrical Motor Operation	11	6/5/13-17/5/13	Advance Vocational Training Institute, Sion-Chunabhatti, Mumbai.	Dr.M.S.Panse	To upgrade skills

### Establishing tie up with IITs and NITs

Sr. No.	Activity	Coordinator	Outcome
1.	Tie up with Elect Dept. IIT Bombay	Dr. N.M.Singh, Dr. F.S.Kazi	• Joint research and publications

2.	Tie up with Systems and Control group, IIT Bombay	Dr. N.M.Singh, Dr. F.S.Kazi	<ul style="list-style-type: none"> <li>• Joint research and publications</li> </ul>
3.	IIT Madras	Dr. N.M.Singh, Dr. F.S.Kazi	<ul style="list-style-type: none"> <li>• Joint research and publications</li> <li>• PG students internships (02)</li> </ul>

### CEP Courses Conducted

Year	Open to all	In House	Total
2015 – 16	0	04	04

### Seminars/Conferences/Workshops/Symposiums Organized

Year	Number
2015 – 16	07

### Seminars/Conferences/Workshops/Symposiums attended by

Year	Faculty	PG Students	Ph.D. Scholars
2015 – 16	14	30	36

### Noted Achievements

- Total No. of Ph.D. Scholars - 52
- 9 Ph.D. scholars completed Ph.D.
- Sponsored R&D and Laboratory development projects with funding of approx. Rs 10 Crore are being carried out in the department.
- Joint Guidance of P.G. projects with research organizations like SAMEER, BARC, TIFR, etc.

# **COMPUTER ENGINEERING & INFORMATION TECHNOLOGY DEPARTMENT**

## **Department Overview**

Department of computer engineering and information technology was established in 1986, with bachelor's degree in computer engineering and later expanded with bachelor's degree for Information Technology in 2001. The department runs two undergraduate programs B.Tech(Comp), B.Tech(IT) and three postgraduate programs namely, M.Tech.(Computer Engineering) and M.Tech(Computer) specialization in 'Network Infrastructure Management System' and M.Tech (Computer) specialization in 'Software Engineering'. The department also runs PhD program.

Faculty member sof the department are 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 of computer engineering and information technology has labs in networking, multimedia systems, cloud computing, parallel computing, web engineering, MIS, advanced database and Network infrastructure management system etc. It has incorporated all the latest facilities for the benefit of the students.

The latest software and hardware equipments are provided to the students. Our students run the student association of computer enthusiast for conducting the technical as well as extracurricular activities. The department conducts various workshops and seminars which are of great help to the student in their curriculum. Emphasize is laid on fundamentals of computer science and engineering supported by laboratory practicals.

The syllabus of the department is designed so as to match the needs of the industry. Apart from giving through technical knowledge using the state of art technology, students are given exposure of working in groups on live projects. Not only that, students are made to work on the real time problems so that they come up with solutions and enhance their problem solving skills.

The department always encourages the student for internship. Department also explores the possibilities and takes the initiative through TPO so that maximum students from 2<sup>nd</sup> year onwards going for Internship.

### **1. Year of establishment: 1986**

### **2. Programs offered:**

<b>Program</b>	<b>Sanctioned Intake</b>	<b>Year of starting of the program</b>	<b>Accreditation status</b>
B. Tech. (Computer Engineering)	60	1986	Accredited (2003, 2008, 2013, valid up to 2017 )
B. Tech.(Information Technology)	60	2001	Accredited (2008, application in process)
M. Tech. (Computer Engineering)	25	1986	Accredited (2008, application in process)
M. Tech. Computer Engineering ( Network Infrastructure Management System )	18	2010	Accreditation in Process
M. Tech. Computer Engineering ( Software Engineering )	24	2012	Not Applied
<b>Ph. D. Computer Engineering</b>	--	2007	--

**Total number of students in the Department = 517**

**3. Department has 14 well-equipped laboratories as listed below:**

Sr. No.	Lab	Special Machine(s)	Year of Upgradation	Sponsor
1	LAB 1A	Lenovo All in One ,i3 – 3220 3.30Ghz, RAM 4GB ,HDD – 500GB	2014	Institute Fund
2	LAB 1B	HP Desktop , i5 – 3470 3.20Ghz, RAM 4GB, HDD – 500GB	2014	Institute Fund
3	LAB 1C	Dell High End Desktop , i5 – 4570 3.20.Ghz ,RAM 4GB, HDD – 500GB	2014	TEQIP II Fund
4	M. Tech Project Lab	Dell High End Desktop ,i5 – 4570 3.20.Ghz, RAM 4GB, HDD – 500GB	2014	TEQIP II Fund
5	LAB 2A	Acer All in One ,i3 – 4130, 3.4Ghz, H8, RAM 4GB, HDD – 500GB	2015	Institute Fund
6	LAB 2B			
7	LAB 2C			
8	Multimedia LAB	Dell High End Desktop ,i5 – 4570 3.20.Ghz, RAM 4GB, HDD – 500GB	2015	TEQIP II Fund
		Acer, Intel G3240, 3.10Ghz, RAM 4GB, HDD – 500GB	2014	Institute Fund
9	DCC LAB	Dell Intel Quad core, i5 – 4570 3.20.Ghz, RAM 8GB, HDD – 500GB	2014	TEQIP II Fund
10	LAB 3A	Acer All in One , i3 – 4130, 3.4Ghz, H8 ,RAM 4GB ,HDD – 500GB	2014	Institute Fund
11	LAB 3B			
12	LAB 3C	Acer ,Intel G3240, 3.10Ghz, RAM 4GB ,HDD – 500GB	2014	Institute Fund
13	Advanced Network Lab	Acer ,Intel G3240, 3.10Ghz ,RAM 4GB ,HDD – 500GB	2014	Institute Fund
		Acer i5 – 4460, 3.20Ghz ,RAM 4GB, HDD – 500GB		TEQIP II Fund
14	Server Lab	Dell poweredge R720 Server	2013	TEQIP II Fund
		Supermicro Quite workstation	2014	
		Storage Area Network machine	2014	

#### **4. Current Faculty list:**

##### **Computer Engineering Faculty:**

<b>Sr. No.</b>	<b>Name</b>	<b>Designation</b>
1	Dr. S. G. Bhirud	Professor & H.O.D.
2	Dr. B. B. Meshram	Professor
3	Dr. G. P. Bhole	Associate Professor
4	Prof. P. M. Chawan	Associate Professor
5	Prof. M. U. Kulkarni	Assistant Professor
6	Prof. Varshapriya J N	Assistant Professor
7	Prof. S. C. Shrawne	Assistant Professor
8	Prof. S. S. Suratkar	Assistant Professor
9	Prof. V. D. Dhore	Assistant Professor
10	Prof. S. A. Khedkar	Assistant Professor

##### **Information Technology Faculty:**

<b>Sr. No.</b>	<b>Name</b>	<b>Designation</b>
1	Dr. V. B. Nikam	Associate Professor
2	Dr. M. M. Chandane	Associate Professor
3	Dr. V. K.Sambhe	Assistant Professor
4	Prof. M. R. Shirole	Assistant Professor
5	Prof. S. S. Udmale	Assistant Professor
6	Prof. K. K. Joshi	Assistant Professor
7	Prof. Sowmiya Raksha Nayak	Assistant Professor
8	Prof. S. T. Shingade	Assistant Professor

##### **Adhoc Faculty (2016-2017)**

<b>Sr. No.</b>	<b>Name</b>	<b>Designation</b>
1	Ms. Sonali Wankhede	Assistant Professor
2	Mr. Bhumesht Masram	Assistant Professor
3	Mr. Manish Jansari	Assistant Professor
4	Mr. Imran Jamadar	Assistant Professor
5	Ms. Anupriya Babbar	Assistant Professor
6	Ms. Ritu Maheshwari	Assistant Professor

7	Ms. S. V. Tiwari	Assistant Professor
8	Mr. N. K. Shaikh	Assistant Professor
9	Ms. Rukhsar Khureshi	Assistant Professor
10	Ms. Payal Jadhav	Assistant Professor
11	Ms. Priya Walde	Assistant Professor
12	Ms. Himani Jawale	Assistant Professor
13	Ms. Nikita Tiwari	Assistant Professor
14	Mr. Vinit Tribhuvan	Assistant Professor
15	Mr. G. P. Babhulkar	Assistant Professor
16	Ms. Prachiti Pimple	Assistant Professor

**Non-Teaching Staff:**

Sr. No.	Name	Designation
1.	R.N. Patkar	Foreman
2.	S.N. Punekar	Data Entry Operator
3.	N.G. Naik	Instructor
4.	A.S. Daple	Lab. Assistant
5.	M.P. Khapne	Lab. Assistant
6.	M.G. Phepde	Lab. Attendant
7.	V.S. Tandlekar	Lab. Attendant
8.	S.R. Jadhav	Lab. Attendant
9.	P.B. Shende	Lab. Attendant
10.	S.S. Palkar	Hamal
11.	Khalid Barmare	Hamal

**5. Activities/Achievements of Students:** (Duration – July 2016 to June 2017)

Student Name	Event Name	Date	Participated/Won a Prize
Raj Gopal Chandak	Best App made by Students Category, M-indicator Hackathon	December, 2016	Winner
	Credit Suisse Hackathon	January, 2017	Runner Up
	Unicus Business Plan Competition, E-cell VJTI	March, 2017	Winner
	Prodology Hackathon	March, 2017	Winner
	DCB Bank Innovation Hackathon	October, 2017	Runner Up
	Technical Paper Presentation, IEEE VJTI	December, 2017	Runner Up
Rami Neel Manish	Best App made by Students Category, M-indicator Hackathon	December, 2016	Winner
	Credit Suisse Hackathon	January, 2017	Runner Up
	Unicus Business Plan Competition, E-cell VJTI	March, 2017	Winner
Isha Manoj Pongde	Technovanza	December, 2016	External Affairs Officer
Karia Vishwa Jayesh	Technovanza	December, 2016	General Secretary

Vivek chauhan	Code Royal, Technovanza	December, 2016	1st Place
	Ultimate Coder, Technovanza	December, 2016	2nd Place
	Codeswap, Technovanza	December, 2016	2nd Place
	Yellow Coder, Codechef	-	Participated
Rishabh bansal	Stryker technical challenge, Technovanza	December, 2016	In top 3
Prachiti	Coding challenges on Hackerearth	-	Participated
	R-ward dance competitions	-	Participated
Samisha Ladkar	Pratibimb	December, 2016	Social Representative of Computer department
	Trade Show, Pratibimb	December, 2016	2nd Prize
	Tattoo Making, Pratibimb	December, 2016	3rd Prize
	Badminton, Enthusia	December, 2016	2nd Place
Shreya Rajendra Khatal	Fresher Basketball match, Enthusia	December, 2016	Winner
Ameya Daddikar	coding competition 'Enigma' conducted by the Tecfest, IIT Bombay	-	Participated
	ICPC competition	-	Overall Rank of 1230
	Technovanza	December, 2016	Event Manager in the Operations division
Devangi	Technovanza	December, 2016	Event Manager
	Alumni Association		Event Manager
Sayli Sarvade	Relay, Enthusia	December, 2016	Winner
	Technovanza	December, 2016	Event Head
Rushikesh Joshi	Codechef Snackdown Competition	-	Ranked 850 21000 participants
Nikhil Vankayala	TCS codevita coding competition	-	Participated
Yash Arvindkumar Ranka			
Manish Chugani			
Apeksha Gothawal	CodeIT by Credit Suisse	-	Participated
Arpita Karkera	ACM ICPC Amritapuri Regionals 2017	-	Selected
Kiranmayi Gandikota			
Kausha Nisar	Carrom, Enthusia	December, 2016	Participated
	Badminton, Enthusia	December, 2016	Participated

## 6. Activities/Achievements of Faculty: (Duration –July 2016 to June 2017)

### (A) Training Attended

Faculty involved	Training Detail	Year & month
Prof. V.D. Dhore	Attended Two day workshop on “Hadoop” , organized by Infosys, Mumbai	4th & 5th August, 2016
Prof. S. C. Shrawne	Attended Two day Faculty Development Program, organized by Infosys, Pune	4th & 5th August, 2016
Prof. P. M. Chawan	Attended One Day TEQIP-II sponsored FDP on, “Datacenters Technology and Trends”, organized by VJTI & ABB	23rd August 2016
Prof. V.D. Dhore	Attended One day iON Faculty Development programme, organized by TCS, Mumbai.	September 7th, 2016

Prof. V.D. Dhore	Attended TEQIP-II sponsored Two weeks workshop on “Mathematical and Statistical Foundations in Engineering Applications” organized by VJTI	16th to 19th September 2016 and 12th to 17th October 2017
Prof. P. M. Chawan		
Prof. Varshapriya J. N.		
Prof. Sowmiya Raksha Nayak		
Dr. G. P. Bhole		
Prof. K. K. Joshi		
Prof. S. C. Shrawne		
Dr. S. G. Bhirud		
Dr. V. B. Nikam		
Prof. S. S. Udmale		
Prof. Shraddha Suratkar	Attended Two Days International Conference on Innovations in Science & Technology: Opportunities and Challenges" in association with International Journal of Pure & Applied Research in Engineering & Technology at COETA, Akola, Maharashtra	23 <sup>rd</sup> & 24 <sup>th</sup> September 2016
Prof. S. C. Shrawne	Attended One Week Course on “Big Data and Trust: Experience, Challenges, Techniques and Applications” organized by VJTI under GIAN	26th to 31st December 2016
Prof. Shraddha Suratkar	Attended One week AICTE QIP sponsored Faculty Development Programme on “New Trends in Biomedical Signal Processing”, organized by VJTI	16 <sup>th</sup> – 21 <sup>st</sup> January, 2017
	Attended One week TEQIP-II sponsored workshop on “Smart Grid” in collaboration with Center for Development of Technical Education, IIT Kanpur	25 <sup>th</sup> Feb to 1 <sup>st</sup> March 2017
	Attended One Week Course on “Big Data and Trust: Experience, Challenges, Techniques and Applications” organized by VJTI under GIAN	26th to 31st December 2016
Prof. Varshapriya J. N.	Attended one week QIP Sponsored Workshop on “Data Mining with R”, organized by VJTI	7th -12th March 2017
Prof. S. C. Shrawne		
Prof. V.D. Dhore	Attended AICTE QIP sponsored Two weeks Short Term Course on “Big Data Analytics” organized by VJTI.	10th to 19th May 2017
Prof. S. K. Khedkar		
Prof. S. C. Shrawne		
Prof. V.D. Dhore	Attended AICTE sponsored Two weeks Faculty Development programme on “Machine Learning Tools and Application for engineers” organized by Department of Electrical & CE-IT, VJTI	12 th to 21 st June 2017
Prof. S. K. Khedkar		

**(B) Workshop/Seminar Organized /Coordinated**

Faculty involved	Training Detail	Year & month
Dr. S. G. Bhirud	Two weeks workshop on “Mathematical & Statistical Foundation in Engineering Applications” UNDER TEQIP-II	16th September, 2017
Prof. S. S. Udmale		
Prof. S. Suratkar		
Prof. Varshapriya J. N.		
Prof. Sowmiya Raksha Nayak		
Prof. M. R. Shirole		
Prof. M. R. Shirole	One week QIP Sponsored Workshop on “Data Mining with R”, organized by VJTI	7th -12th March 2017
Prof. K. K. Joshi		



Dr. G. P. Bhole	One-week AICTE-QIP Sponsored Short term course on “Internet of Things” organized by Department of CE & IT, VJTI Mumbai	15th to 20th March 2017
Prof.M.R.Shirole		
Prof. V. D. Dhore		
Prof. K. K. Joshi		
Prof. S. Suratkar		
Prof. S. A. Khedkar		
Prof. S. G. Bhirud	Attended AICTE sponsored Two weeks Short Term Course on “Big Data Analytics” organized by VJTI.	10th to 19th May 2017
Dr. G. P. Bhole		
Prof. S. Suratkar	Two Weeks QIP on “Machine Learning Tools and Applications for Engineers”, organized by Department of Electrical & CE-IT, VJTI	12th - 21st June, 2017
	One-week workshop on “Numerical Linear Algebra for Engineering Applications” under GIAN, a project by MHRD.	26th January - 31st January 2017

### **7. Other activities of staff-members at Institute level or outside institute:**

<b>Faculty Involved</b>	<b>Activity</b>
Dr. S. G. Bhirud	<ul style="list-style-type: none"> <li>● Head Of the Department</li> </ul>
Dr. B. B. Meshram	<ul style="list-style-type: none"> <li>● As an Expert for MPSC Interviews</li> <li>● Member of BOS in Govt.College of Engineering, Karad</li> <li>● Member of BOS in Govt.College of Engineering, Jalgaon</li> <li>● Guiding U.G., P.G. and PhD students</li> </ul>
Dr. G. P. Bhole	<ul style="list-style-type: none"> <li>● Guiding U.G., P.G. and PhD students</li> <li>● Conducted NAMI-ICT, Machine Learning course at IIT Kharagpur</li> </ul>
Prof. P. M. Chawan	<ul style="list-style-type: none"> <li>● Worked as a NBA coordinator of the B. Tech. Computer Engineering Programme.</li> <li>● Participated M. Tech. (NIMS) NBA Accreditation Process</li> <li>● Guided five M. Tech. Projects three B. Tech. Projects</li> <li>● Worked as a member of syllabus revision committee. Revised B.Tech. Computer Engg. syllabus considering NBA Committee recommendations</li> <li>● Worked as member Board Of Studies CE &amp; IT Dept.</li> <li>● Became member of Researchgate community in April 2017.</li> </ul>
Prof. M. U. Kulkarni	<ul style="list-style-type: none"> <li>● Study leave for PhD course work.</li> </ul>
Prof. Varshapriya J N	<ul style="list-style-type: none"> <li>● Guided five M. Tech. Projects, Two B. Tech. Projects</li> <li>● Department Annual Report Coordinator</li> <li>● Class Teacher of M. Tech NIMS</li> <li>● Participated M. Tech. (NIMS) NBA Accreditation Process</li> </ul>
Prof. S. C. Shrawne	<ul style="list-style-type: none"> <li>● Worked as member for First Year B Tech Admission 2016 - 17</li> </ul>
Prof. V. D. Dhore	<ul style="list-style-type: none"> <li>● Worked as a Rector Boys Hostel from May 19, 2017 to till date</li> <li>● Worked as a Sub Liasoning officer for MHT-CET- 2017.</li> <li>● Worked as a Department Exam Coordinator.</li> </ul>
Prof. Shraddha Suratkar	<ul style="list-style-type: none"> <li>● Invited as a Judge for “ELECHROMA” at National level technical fiesta, PRAGYYA 2017 at SGGSI&amp;T, Nanded.</li> <li>● Worked as a Sub Liasoning Officer (SLO) for MHT-CET admission 2016-17 conducted by Government of Maharashtra.</li> <li>● Worked as a Rector, Girls Hostel at VJTI Mumbai.</li> <li>● Worked as a member of Internal Complaints Committee at VJTI,</li> </ul>

	<p>Mumbai.</p> <ul style="list-style-type: none"> <li>Worked as a member of Anti-ragging Committee at VJTI.</li> </ul>
Dr. V. B. Nikam	<ul style="list-style-type: none"> <li>Worked as Assistant District Liasoning Officer (ADLO) for MHT-CET admission 2016-17 conducted by Government of Maharashtra</li> <li>Lab Incharge of High Performance Computing</li> <li>Developed MH-CET 2017 app for conducting CET 2017. This is useful for both student and regional officers.</li> </ul>
Dr. M. M. Chandane	<ul style="list-style-type: none"> <li>IT Infrastructure Head</li> <li>GIAN Coordinator.</li> </ul>
Prof. M. R. Shirole	<ul style="list-style-type: none"> <li>Institute Controller of Examination</li> <li>Member of DAC committee</li> <li>Institute level scrap committee member</li> </ul>
Prof. S. S. Udmale	<ul style="list-style-type: none"> <li>Worked as a Department Exam Coordinator.</li> </ul>
Prof. Kiran Joshi	<ul style="list-style-type: none"> <li>Worked as a Sub Liasoning Officer (SLO) for MHT-CET admission 2016-17 conducted by Government of Maharashtra.</li> <li>Developed MH-CET 2017 app for conducting CET 2017. This is useful for both student and regional officers.</li> </ul>
Prof. Sowmiya Raksha Nayak	<ul style="list-style-type: none"> <li>Worked as a Sub Liasoning Officer (SLO) for MHT-CET admission 2016-17 conducted by Government of Maharashtra.</li> <li>Developed MH-CET 2017 app for conducting CET 2017. This is useful for both student and regional officers.</li> </ul>

### **Papers Published:**

- Prof. P. M. Chawan published 14 papers in International Journals.
- Prof. Varshapriya J. N. published 4 papers in International Journals.
- Prof. Shraddha Suratkar published 2 papers in International Journals.

### **Other Information**

- CITIUS TECH EXCELLENCE AWARD 2016**

Department organized CITIUS TECH Excellence award on 27 December 2016 followed by a seminar on “Healthcare in IT industry”. The award of amount 25000 is given every year to the topper of third year computer engineering student by the CITIUS TECH company to appreciate the talent and efforts of the students and to motivate them for better prospectus. The student **JEET MEHTA** was given the **CITIUS TECH Excellence AWARD**.

- Following Faculty members have joined / selected for Ph.D. in VJTI as an Internal Institute candidate.
  - Prof. M. R. Shirole
  - Prof Varshapriya J N
  - Prof Sowmiya Raksha
  - Prof Kiran Joshi

6 students were selected for PhD admissions as external candidates

### **Achievements:**

- Prof. P. M. Chawan:
  - Number of papers published in Conferences/Journals/Symposiums: 104
  - No. of Reads: 6665
  - No. of Citations: 127
  - According to Researchgate analysis – Prof. P. M. Chawan’s publications are the most read publications from the Institute (VJTI) and the Department (CE & IT Dept) in 29 weeks since April 2017 till Dec 2017
  - ResearchGate Score (RG Score): 8.7
  - h-index: 6
- Prof. Shraddha Suratkar:
  - Qualified NPTEL Online Certification funded by MHRD, Govt. of India for 8 weeks course on “Introduction to Research” with a consolidated score of 60% held during Jan-March 2017.

## **MASTER OF COMPUTER APPLICATIONS**

### **Department Overview**

The department was one among the first few pioneering departments in India to start MCA course in 1984 as a part of the scheme by Department of Electronics to provide the much needed computer trained manpower for the upcoming computer industry. MCA course is unique blend of courses that cover core computing, mathematics, statistics and management components to provide students a niche place in industry. In this course, students study for 5 semesters and spend the sixth semester in the industry to gain industrial experience. The course is well appreciated in the Industry.

Department updates its syllabus with the help of advisory committees that comprise of academicians and industry members. Faculties along with aluminous, under the industry institute interaction scheme, are constantly working to bridge the gap between academics and industry to enhance the teaching - learning process. Many of our alumni are coming forward to help the students by providing training on upcoming technologies. Some of our distinguished aluminous are Mr. Srinu Koushik, Ms. Smeeta Dighe, Mr. Sumeet Rajwade, Mr. Ramu Menon, M. Arun Iyer.

Department has initiated research activity in the areas of Big Data, Data mining, Mobile Computing, Network Security, Artificial Intelligence, Image processing, Cloud Computing. The academic activities are supported with 3 different labs with advanced hardwares and softwares.

### **Faculty List- Regular & Contractual**

	<b>Name</b>	<b>Designation</b>	<b>Status</b>
1.	Prof. Lalitha.C. Nene	Associate professor	Regular
2.	Prof. Anala A. Pandit	Associate professor	Regular
3.	Prof. Archana G. Pai	Assistant professor	Regular
4.	Prof. Sonali I. Ajankar	Assistant professor	Regular
5.	Prof. Swati S. Chopade	Assistant professor	Regular
6.	Prof. Nikhil B. Khandare	Assistant professor	Regular.
7.	Prof. Vaidehi Bhatt	Assistant professor	Contractual
8.	Prof. Yogesh Wanjari	Assistant professor	Contractual
9.	Prof. Aakriti Soni	Assistant professor	Contractual
10.	Prof. Ashwini Pawar	Assistant professor	Contractual

### **Non Teaching Staff**

<b>Sr. No</b>	<b>Name</b>	<b>Designation</b>	<b>Status</b>
1.	Mr. S. N. Punekar	D. E. O.	Regular
2.	Mr. P. B. Shende	Lab Attendant	Regular
3.	Mr. Shrikant Birvatkar	Peon	Contractual

### **Visits of dignitaries/committee**

<b>Name of Resource person</b>	<b>Title for talk</b>	<b>Dates</b>	<b>Internal faculty Involved</b>
Mr. Sibtain masiha	GIT	17 July 2016	Prof. Sonali I. Ajankar

## Training Program/Seminars/Conferences attended

Faculty staff involved	Title of Programme	Programme details
Prof. Lalita C. Nene	1. 1 week workshop on "Internet of Things" at IIT Kharagpur.	2016
Prof. Anala Pandit	1. 1 week Principal Investigator GIAN workshop on "Big Data and Trust" 2. FDP on "Datamining Algorithms and their scalability for Big Data" 3. One Week Short Term QIP Programme on "Data Mining with R"	Dec 2016 Jan 2017 March 2017
Prof. Archana G. Pai	1. Two week FDP on "Mathematical and statistical foundation in engineering Application" under TEQIP. 2. Four week FDP on "Use of ICT in Education for online and Blended learning"	Sep- 2016 June 2016
Prof. Sonali I. Ajankar	1. QIP sponsored one week course on Internet of things 2. GIAN course on Big Data and Trust 3. National level workshop on "Internet of Things"	March 2017 December 2016 January 2017
Prof. Swati S. Chopade	1. GIAN course on Big Data and Trust	December 2016
Prof. Nikhil B. Khandare	1. QIP sponsored one week course on Internet of things. 2. GIAN course on Big Data and Trust 3. .FDP by Infosys on Big Data and Hadoop	March 2017 December 2016 August 2016

## Other activities of staff-members at Institute level or outside institute

Faculty involved	Activity
Prof. Anala Pandit	1. Published a paper on "Remodeling improved Privacy Preserving Data mining" in IEEE international conference on "Computing for sustainable global development" March 2017 2. Keynote speaker at National Conference on Emerging Trends : Innovation & Challenges in Information Technology on 29 <sup>th</sup> June 2017. 3. Session Chair for the UGC Sponsored National Conference titled "Confluence of emerging trends in Multidisciplinary Research Areas to Mathematics (CETMRAM – 2016)" on 19th December 2016 4. Expert lecture on "Social Media Mining" at MNIT Jaipur January 2017 5. Web site Incharge for VJTI.
Prof. Lalita. C.Nene	1. Worked for providing the technical support/ Ideas for teams participating in Smart India Hackathon 17.
Prof. Archana G. Pai	1. Co-ordinated MCA Admission for state level
Prof. Sonali I. Ajankar	1. Publish a research paper titled "Review on Comparison of Handwritten digit recognition using ANN Models FFNN and RNN" published in International Journal of Recent Advancement in Engineering & Research (IJRAER), in Volume 3, Issue 6; June 2017.

	<ol style="list-style-type: none"> <li>2. Exam Coordinator for A.Y. 2016-2017.</li> <li>3. Worked as member of organizing team for GIAN workshop on Big Data and Trust at Dept of MCA VJTI in December 2016.</li> <li>4. Assisted in facilitation center and ARC of MCA CAP for state level.</li> <li>5. Assisted in VJTI MCA admission.</li> </ol>
Prof. Swati S. Chopade	<ol style="list-style-type: none"> <li>1. Lab in charge</li> <li>2. Scrap committee member</li> <li>3. Procurement of server</li> <li>4. Procurement of 3 machines and printer</li> <li>5. Assisted in facilitation MCA</li> <li>6. Assisted in MCA admission</li> </ol>
Prof. Nikhil B. Khandare	<ol style="list-style-type: none"> <li>1. Institute Coordinator for Smart India Hackathon 2017</li> <li>2. Published paper titled “Performance Analysis of Cryptographic Protocols to Enhance SMS and M-Commerce Security” in International Journal of Computer Trends and Technology 44 (1), 58-63.</li> <li>3. Worked as member of organizing team for GIAN workshop on Big Data and Trust at Dept of MCA VJTI in December 2016.</li> <li>4. Holding the additional charge of Rector, Boys’ Hostel VJTI from May 2016.</li> </ol>

### **Achievements of the students:**

#### **a. Placements and training:**

<b>Full Name</b>	<b>Placement Company Name</b>
Teli Akshay Narayan	Thomas Cook
Talashilkar Smit Arun	Thomas Cook
Singh Mukesh Jahendranath	Zeus Systems Pvt. Ltd
Poojary Sushantha Sunder	Nomura
Gajbhiye Vishwas Bhimrao	Canvass
Palwankar Abhishek Ashok	Vara United Pvt Ltd
Bhise Gajendra Ganpatrao	Rethinking Web
Patil Lavesh Gokul	Mastek
Shaikh Mehatab Saheblal	Canvass
Patil Adwait Suhas	Pi Techniques
Jadhav Nikhil Ravindra	Morningstar
Jadhav Sumit Vitthal	Pragmatix Services
Naik Suraj Sunil	BragBee
Gawad Mandar Bipin	Barclays
Tatla Gurjit Singh	Mastek

Nayal Manish Kumar	Morningstar
Adhikari Aakash Ashimkumar	General Mills
Loke Vishal Dhondu	Nomura
Gawde Yashodhan Vasant	Barclays
Loya Anirudh Rajesh	Nomura
Mahanor Rajendra Kalyan	Rethinking Web
Negi Neelam Kishansingh	Nomura
Raut Tejasvi Deepak	Zeus Systems Pvt. Ltd.
Thakor Vidhi Ramesh	Mastek
Ghosh Bithi S.P.	Pi Techniques Pvt Ltd
Phutane Priyanka Jagannath	Nomura
Kumari Neha	Thomas Cook
Gokarn Pooja Suresh	Wisdmlabs
Dabholkar Urmi Nitin	Cummins India Limited
Jadhav Nikhil Ravindra	Morningstar

**b. Intercollegiate competition**

<b>Students involved</b>	<b>Achievement</b>	<b>Dates</b>
Abhilash Jawalkoti Suraj Krishnan Vighnesh Sarvankar Neha Chaudhari Preeti Kumari	First Runner up in Smart India Hackathon 2017 at Mumbai.	March 2017

# PRODUCTION ENGINEERING DEPARTMENT

## Department Overview

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. The department was headed by stalwarts in the field of Production Engineering like Prof. T. Francis and Dr. C.S. Sharma who have contributed their dynamic vision towards its growth. At present the department offers B.Tech, M.Tech and Ph.D Programs. The B.Tech. Program is of sandwich type and is recognized by the board of apprenticeship training. Because of this, the students undertake live projects in various industries as a part of their curriculum. Postgraduate students (M.Tech) also undertake industrial projects during Sem-III and Sem-IV. The department has very good 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. Many undergraduate students prefer for post graduation in management and technology courses along with significant number of students opt for M.S. programs specifically in Industrial Engineering.

**Year of Establishment: 1959**

### Programs offered

Course	Specialization	Duration in years	Intake
B. Tech.	Production Engineering	4	60
M. Tech.	1) Production Engineering	2	18
	2) Project Management	2	36
PhD	Production and Industrial Engineering related research areas	--	10

### Faculty List :

<b>Regular</b>			
Sr. No	Faculty Name	Designation	Nature of appointment
1.	Dr. D.K. Shinde	HOD & Associate Professor	Regular
2.	Dr. D.N. Raut	Professor	Regular
3.	Dr. B. E. Narkhede (on lien to NITTE)	Associate Professor	Regular
4.	Prof. M.R. Nagare	Associate Professor	Regular
5.	Prof. P.M. Ravanan	Associate Professor	Regular
6.	Prof. D.V. Pendam (On Ph D Study Leave)	Assistant Professor	Regular
7.	Prof. P.R. Attar (On Ph D Study Leave)	Assistant Professor	Regular
<b>Adhoc</b>			
Sr. No.	Faculty Name	Designation	
8.	B.B. Paikrao	Assistant Professor	
9.	Abhishek Kure	Assistant Professor	
10.	Dhondiba Awad	Assistant Professor	
11.	Ankit Toshniwal	Assistant Professor	
12.	Sandip Barange	Assistant Professor	
13.	Hemant Badgujar	Assistant Professor	

14.	Shah Rauf	Assistant Professor
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**Non-Teaching staff:**

Sr. No.	Name	Designation
1)	D.T. Pandire	Lab. Assistant
2)	D.B. Jagtap	Data Entry Operator
3)	R.N. Ahir	Hamal
4)	Amit Rane	Hamal
5)	Govind Gawade	Hamal

**Activities/Achievements**

Sr no	Activities	Dates
1)	<b>PROFIESTA 2016-17</b> Annual event was organized by the M. Tech FY and SY students of project management, VJTI in association with PMI.	6 <sup>th</sup> & 7 <sup>th</sup> Jan 2017
2)	<b>PRODOLOGY 2017</b> International SAMPE – VJTI Chapter organised in association with Prodology 2017 by PESA	18 <sup>th</sup> & 19 <sup>th</sup> March, 2017

Faculty involved	Achievement	Dates
Dr. D.K. Shinde	Completed PhD in Nano-Engineering with Material Science-Composite material from North Carolina University, USA	Dec 2014
Prof. P.R. Attar	Selected for full time PhD program at IIT Delhi under Quality Improvement Program	2016-2017
Prof D.V. Pendam	Selected for full time PhD program for foreign country through National Overseas Scholarship from Govt. Of India.	2016-2017
Dr. D.N. Raut	Completed MBA in Human Resources from Mumbai University.	2016-17
Prof. M.R. Nagare	Pursuing PhD in Inventory Modeling of Short Lifecycle Product from IIT Bombay.	2016-17

**Developmental Activities:**

Laboratory development				
Area	Brief details	Sponsor	Date	Amount
Metrology Lab	3D Printer Additive manufacturing	VJTI	22.8.2016	Rs. 2.75 Lacs
Process Lab CAMRIM	UTM 100kN with all static testing accessories Made by Shimadzu	TEQIP-II	22.11.2016	Rs. 47.82 Lacs
Process Lab CAMRIM	Industrial Electrical Oven	TEQIP-II	22.11.2016	Rs. 4.75 Lacs
Metrology Lab	Electrospinning Machine with all accessories made by E-Spin Nanotech	TEQIP-II	22.11.2016	Rs.8.75 Lacs



CAMRIM				
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## Research Statistics

Name of the faculty	Year	Research Publications			Citations
		Refereed Journals	Conference Proceedings	Total	
Dr. D.K. Shinde	2016-17	15	07	22	19
Dr. D.N. Raut	2016-17	06	02	08	18
Dr. B. E. Narkhede	2016-17	06	-	06	-
Prof. M.R. Nagare	2016-17	04	-	04	-
Prof. P.M. Ravanan	2016-17	02	-	02	-
Prof. D.V. Pendam	2016-17	03	-	03	-
Prof. P.R. Attar	2016-17	02	-	02	-

## Publications

- V.J. Pillewan, D.N. Raut, K.N. Patil, D.K. Shinde Carbon Nanotubes Based Porous Framework for Filtration Applications Using Industrial Grinding Waste”, World Academy of Science, Engineering and Technology(WASET) *International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering* Vol:11, No:2, 2017.
- Dattaji K. Shinde, Ajit D. Kelkar, “Multi-scale Damage Mechanisms and Toughness of Laminated Fiberglass Composite with interleaving of Electrospun TEOS”, *SAMPE 2016* Long, California on May 23-26, 2016
- Shinde, D. ; Kelkar, A., “Characterization and Modeling of Progressive Failures in Short Beam Shear Test of Laminated Composites Interleaved with Electrospun Nanofibers”, ICCMME 2016 : *International Journal of Chemical, Materials Science and Engineering*, Tokyo, Japan May 26-27, 2016
- V. J. Pillewan, D. N. Raut, K. N. Patil, D.K. Shinde, (2017)“*Carbon to Carbon Nanotubes Synthesis Process: An Experimental and Numerical Study*”, 7th International Conference of Materials Processing and Characterization (ICMPC 2017), Materials Today: Proceedings (2017), ELSEVIER ScienceDirect. (Selected but yet to present) (17th -19th March 2017).
- V. J. Pillewan, D. N. Raut, K. N. Patil, D.K. Shinde,(2017) “*TG-DTA analysis of Binary Metal Catalyst for Multi-Wall Carbon Nanotubes Synthesis*”, Track-3: Materials and Manufacturing, 1st International and 18th ISME Conference on Mechanical Engineering: Enabling Sustainable Development (ISME-2017). (Selected but yet to present) (23rd -25th February 2017).
- Gokhare Vinod Gulabrao, D. N. Raut, D.K Shinde, “*A Review Paper on 3D Printing Aspects and Various Processes Use in 3D Printing.*”, *International Journal of Engineering Research and Technology* Vol.6 , Issue 06, Jun 2017.
- Dawne Ashish haribhau, D.K Shinde, D.V. Pendam, “Comparison of Wear Rate Of Friction Stire Welded 6060 Aluminium and Copper With Its Base Metal”. *International Journal Of Engineering Research and Technology (IJERT) ISSN: 2278-0181 VOL.6 ISSUE 06 JUN 2017.*
- Joshi Akshay Deepak, D.K Shinde, D.N.Raut, “Study of Simulation Behavior of Tire and Effect of Working Condition on Slipping Behavior”. *International Journal of Engineering Science and Computing* VOL.7 ISSUE 08 AUG 2017.
- Ranjeet Yadav, D.V. Pendam, D.K Shinde, “Comparative Thermal and Structural Analysis of High Pressure Gas Turbine Blade Using Finite Element Method”, *International Journal of Innovative Research and Technology* VOL.04, ISSUE 02 JUL 2017.
- Sneha Deshmukh, D. K. Shinde, “Identifying and Analysing Critical Factors in Laying of MDPE Pipeline and GI Work”. *International Journal Of Engineering Research & Technology (IJERT)ISSN:2278-0181 Vol.6 Issue 06,June-2017*
- Adeel Shaikh, D. V. Pendam, D. K. Shinde, “Improving Logistics system by using Lean Manufacturing”, *International Journal of Engineering Science and Computing, IJSEC, VOL. 7*

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- Raturaj Bhaskare, D. K. Shinde. "Development of cold supply chain for a controlled atmosphere cold storage for storage of apple", *International Journal of Engineering Science and Computing IJESC* Vol.7 Issue no.7, July 2017
- Trishala Zende, D.K. Shinde, "Causes of Delay and Cost Overruns in a Domestic and Commercial Natural Gas Supplying Company and its Analysis Using Research Methodology", *International Journal of Scientific and Research Publications, IJSRP, Volume 7, Issue 6, June 2017*
- Akshay Bhogil, D. K. Shinde , "Study And Implementation of Project management Principles In NPD In Automobile Manufacturing Industry, *GRD Journals , Vol XX, Issue XX, July 2017.*
- Poonam Tapare, D. K. Shinde, "Zero Base Budgeting In Automotive Part Cost", *International of Engineering Science and Computing -IJESC, Vol 7, Issue No 6.July 2017.*
- V. J. Pillewan , D. N. Raut, K. N. Patil, D. K. Shinde, M. Samykano, "Kinetic Modeling Of Carbon Nanotubes Synthesis: A Review", Elsevier Journal 2016 (accepted)
- SanchitaSahu, D. K. Shinde, "Multiproject Scheduling By Prioritizing Projects of Domestic Piped Natural Gas Using Analytic Hierarchy Process", *International Journal & Magazine of Engineering, Technology, Management and Research, Volume No: 4 (2017), Issue No: 6(June), pp.588-594.*
- Publications of BE Narkhede during 2016-17Balkrishna Eknath Narkhede, (2017) "Advance manufacturing strategy and firm performance: An empirical study in a developing environment of small- and medium-sized firms", *Benchmarking: An International Journal, Vol. 24 Issue: 1, pp.62-101, <https://doi.org/10.1108/BIJ-05-2015-0053>*
- Rakesh D.Raut, Balkrishna Narkhede, Bhaskar B.Gardas(2017),"To identify the critical success factors of sustainable supply chain management practices in the context of oil and gas industries: ISM approach", *Renewable and Sustainable Energy Reviews, Volume 68, Part 1, February 2017, Pages 33-47*
- Bhaskar B. Gardas, , Rakesh D. Raut, , Balkrishna E. Narkhede(2017), "A state-of the-art survey of interpretive structural modelling methodologies and applications", *International Journal of Business Excellence (IJBEX), Vol. 11, No. 4, 2017*
- BM Bhandarkar, BE Narkhede, M Bhagat (2017), "Servant leadership of the teachers of engineering colleges: an empirical study from engineering students' perceptive", - *International Journal of Business Excellence, Vol.11 Issue.4, pp.425-445*
- A.P. Chaple, B.E. Narkhede(2017), "Value stream mapping in a discrete manufacturing: A case study", *International Journal of Supply Chain Management, Vol.6 Issue.1, pp.55-67*
- B.E. Narkhede, S.K. Mahajan, B.T. Patil, R.D. Raut(2017),"Evaluating Factors Influencing Information Quality in Large Firms", *International Journal of Social, Behavioural, Educational, Economic, Business and Industrial Engineering, Vol.11, Issue.1, pp.30-37*
- Pirsab Attar, Rajeshkumar Madarkar, S. Ghosh and P. Venkateswara Rao, "Experimental Investigations on Grindability of Nickel Based Alloy Nimonic-90,"*Proceeding of 10th International Conference on Precision, Meso, Micro and Nano Engineering (COPEN 10) December 07 - 09, 2017, Indian Institute of Technology Madras, Chennai- 600 036- India, pp-841-844.*
- Rajeshkumar Madarkar, Sahaj Agarwal, Pirsab Attar, S. Ghosh & P. V. Rao (2017): Application of ultrasonic vibration assisted MQL in grinding of Ti-6Al-4V, *Materials and Manufacturing Processes, DOI:10.1080/10426914.2017.1415451.*
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- P. M. Ramanan, Development of "DCDC button Cover Casting using Autocast 11" in *IJERT, Volume.6,Issue.06,June-2017.*
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- P.M.Ramanan, "A review on Interfacial Heat Transfer Coefficient During Solidification in Casting" " in *IJERT, Volume.6,Issue.02,Feb-2017.*
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- Onkar Sahasrabudhe, D. N. Raut, (2016) " Hybrid TIG-MAG arc welding: Fixture fabrication

and the process optimization by response surface methodology” WITW-D-16-00185, *Welding in the World*, international journal material joining, International Institute of Welding (IIW), Springer, UK. Submitted on 15th July 2016. Accepted for review on 20th July 2016. (Paper under review).

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- Waghmare, S.N. Raut, D.N., Mahajan, S.K. and Bhamare, S.S. (2017) ‘Enhancing reliability and quality for SMEs in India by using failure mode effect analysis and total productive maintenance’, *International Journal of Indian Culture and Business Management*, Inderscience Publishers Vol. 14, No. 01, pp. 044–064.
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- Waghmare SN, Raut DN, Mahajan SK and Bhamare SS (2016) “Improving reliability for SMES in India by using faults classification.” *Indian Journal of Engineering*. ISSN 2319 – 7757 EISSN 2319 –7765, 2016, 13(33), 354-361.
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- Dr. D. N. Raut(Aug 2017), “Study of Simulation Behaviour of Tire and Effect of Working Conditions on Slipping Behaviour”, *International Journal of Engineering Science and Computing(IJESC)*, Vol 7, Issue No:8
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- S.N. Waghmare, D.N. Raut, S.K. Mahajan, S.S. Bhamare, “Improving Reliability for SMES in India by using Faults Classification” *Proceedings of International Conference on Trends in Industrial and Mechanical Engineering (ICTIME 2016)*, February 4-6, 2016 at MANIT, Bhopal, ISBN:978-93-84935-68-9, pp.49-56.
- M. Nagare, P. Dutta and N. Cheikhrouhou. Optimal ordering policy for newsvendor models with bidirectional demand changes using expert judgment. *OPSEARCH*, Vol. 53, pp. 620-647, 2016 (Springer).
- M. Nagare, P. Dutta and P. Suryawanshi, Optimal procurement and discount pricing for single-period non-instantaneous deteriorating products with promotional efforts. *Operational Research*, DOI 10.1007/s12351-017-0318-5, pp. 1-29, 2017 (Springer).
- M. Nagare and P. Dutta. Procurement and markdown policies for single period product with multivariate demand and heterogeneity of price sensitivity. *Computers and Industrial Engineering*, Second revision submitted, 2017 (Elsevier).
- M. Nagare, P. Dutta and N. Cheikhrouhou. Optimal ordering policy for distribution free newsvendor models with demand updating using expert judgment: Three case studies,-communicated.

### **Training Program/Seminars/Conferences attended**

#### **Dr. D. K. Shinde**

- Delivered Expert talk on “Nanotechnology its potential and challenges” at FDP/STTP for one week on “at S B Patil College of Engineering, Savitribai Phule Pune University From Nov 6-10, 2017
- Delivered Expert talk on “Recent trend in nanocomposite processing and its Application” at QIP FDP/STTP for one week on “at VJTI, Mumbai From October 30-Nov 4 , 2017
- Delivered the keynote address talk at National Workshop on “Recent trends on Processing of Nanocomposite and its application: at Amity University on 18<sup>th</sup> August 2017.
- Delivered Expert talk on “Nanomaterials: processing Modeling and simulation” at QIP FDP/STTP for one week on “at VJTI, Mumbai From 19-24 March December 2017
- Delivered Expert talk on innovative research at Student Research on ‘Episteme-2016: Change, Challenge and Opportunities in emerging markets’ Singhgad Institute of Business management SIBM, Chandivali, Mumbai on 20th Feb 2016

- Delivered Expert talk on Lithography and Nanomaterials at QIP FDP/STTP on Advances in Manufacturing and technology at VJTI during 22-27 Feb. 2016.

**Dr. D. N. Raut**

- MHRD National mission for teachers and administrators management capacity enhancement programme. Held at IIM Indore during Aug 23 to 29 2016.
- International Conference on recent trends in mechanical engineering for sustainable growth held at mechanical department VJTI on 29 and 30<sup>th</sup> Dec 2016

## **STRUCTURAL ENGINEERING DEPARTMENT**

### **Department Overview**

The Structural Engineering department was established in the year 1960. This department deals with the fields of Structural and Geotechnical Engineering. The department conducts the Postgraduate Degree Program of M.Tech. Civil Engineering with specialization in Structural Engineering. Department has also started the Doctoral Programmes. Presently 22 PhD students are registered in the department.

The strength of the Structural Engineering Department has been increased with joining of two Associate Professors and two Professors in the month of July 2011. The department has conducted three AICTE approved one week Short Term Training Programmes and a one week training programme for L & T. Training institute at Madh, Mumbai. The department has also executed many consultancy projects in various fields of Structural Engineering. The major client organizations include Slum Rehabilitation Projects (SRA), NITTE, ONGC Garrison Engineers, BSNL, Omkar Realtors etc. The revenue accumulated through consultancy is 3.23 cr. 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.

## 1. Faculty List- Regular (with designation) & Contractual-

Sr.no.	Name of Faculty	Designation	Regular / Contractual
1	Dr. V. B. Deshmukh	Associate Professor & Head of Department	Regular
2	Dr. Keshav K. Sangle	Professor & Dean (Academics)	Regular
3	Dr. M. A. Chakrabarti	Professor	Regular
4	Dr. A. N. Bambole	Professor	Regular
5	Dr. Sandeep S. Pendhari	Associate Professor	Regular
6	P. W. Kubde	Lecturer, Selection Grade	Regular
7	J. G. Solanki	Assistant Professor	Regular
8	Dhanlakhmi L	Assistant Professor	Contractual
9	Snehal Ovhal	Assistant Professor	Contractual
10	Swini Tirpude	Assistant Professor	Contractual
11	Priya Chintanwar	Assistant Professor	Contractual
12	Prachi Sonarkar	Assistant Professor	Contractual
13	V Sandya	Lecturer	Contractual

### i) Soil Mechanics

In Soil Mechanics laboratory various tests on physical properties are conducted. This laboratory is used for conducting experiments for Diploma, and UG students. The major equipments are Tri-axial shear tests for soil and rock, unconfined compression strength test, Box shear test, consolidation test and etc. Similarly for physical and strength properties of rock samples are also evaluated. This laboratory is also actively involved in testing activities.

### ii) Applied Mechanics Lab:

This lab exclusive used for first year under graduate and diploma students for static and dynamics of rigid bodies. The major equipments are shear leg, jib crane, screw jack, bell crank, singly and doubly purchase crab, pendulum, etc.

### iii) Concrete Technology and Mix Design Lab.

This lab is used for 2<sup>nd</sup> year Diploma and 3<sup>rd</sup> year Degree students. In this lab physical properties of Cement as well as properties of concrete are determined. Also use for mix design and concrete related project works of M.Tech student is done. The major equipment are vibrating machine and a concrete mixer. This laboratory is also actively involved in testing activities.

### iv) Strength of Materials Lab.

This lab is used for 2<sup>nd</sup> year Diploma and Degree students. Here the physical and engineering properties of material are determined. Major equipments are universal and compressive testing machine, big oven and flexural testing machine. This laboratory is also actively involved in testing activities.

### Developmental Activities:

Area	Brief details	Sponsor	Amount ( Rs)
Laboratory development			
Engineering			

Mechanics Lab.	Engineering mechanics laboratory is under up gradation. Digital/Analog instrument procurement is in progress.	Alumni Association VJTI	7 lacs
Structural Dynamics Lab.	Shake Table instrument is installed and fully operational	DST, TEQIP II	1.25 cr.

**Revenue generated:**

Technical test fees	Major Clients	Amount (Rs)
Testing	M/s Omkar Realtors and Developers Pvt. Ltd. m/s Rashtriya chemical and fertilizer m/s L & T Const. Navi Mumbai Municipal Corporation Assistant engineer CPWD Assistant engineer - II Mumbai Central division-V Asst. Exe Engg Mumbai Port Trust Ballard estate Office of the Deputy engineer MIDC Raigad	39 lacs
Consultancy	M/s National Insurance Co.Ltd., M/s Simplex Prehab Infra India Ltd. M/s Aditya Birla chemical, The Ex.Engg.ITPD II, CPWD, Bandra Kurla complex. M/s T.M.C.Thane M/s N.B.C.C. Ltd. M/s U.B.C. Engg.Pvt.Ltd.	4.14 cr

**Papers presented:**

Faculty & Students involved	Title of paper	Title of Conference, Organizer Year & Month
Khan S., Bambole A.N., and Murgudkar H.C.,	Analysis of Spherical Dome with Openings Using Finite Element Method	Sixth International Conference on Computational Mechanics and Simulation, IITB, July 2016.
Bambole A.N., Murgudkar H.C. Thakur P.	Expert System for Bridge Truss Design	Sixth International Conference on Computational Mechanics and Simulation, IITB, July 2016
Pednekar S. C.* Iwalekar A.A. Bambole A. N	Application of friction dampers for improving the seismic performance of structures: an overview	Sixth International Conference on Computational Mechanics and Simulation, IITB, July 2016
Narule G.* And Bambole A. N.,	Effect of cover to longitudinal reinforcement of square rc column for axially compression testing	Sixth International Conference on Computational Mechanics and Simulation, IITB, July 2016
Wagh J. D.* , Joshi P. H. And Bambole A. N. ,	Evaluation of soil deformation modulus	Sixth International Conference on Computational Mechanics and Simulation, IITB, July 2016
Raval D. Bambole A. N. ,	Analysis of laminated composite orthotropic plates under bi-directional bending subjected to concentrated loads	Sixth International Conference on Computational Mechanics and Simulation, IITB, July 2016
Narule G. , Bambole A.N., Raut G., Rathod A. Lendave Y.V.	Slenderness effect on behaviour of cfrp wrapped rc circular column,	Sixth International Conference on Computational Mechanics and Simulation, IITB, July 2016
Kamble S. D.,	Free Vibration Analysis of a Simply	Sixth International Conference on

Shindade A.B. Salokhe N. Bambole A.N. ,	Supported Beam	Computational Mechanics and Simulation, IITB, July 2016
A. B.Pujari, K.K.Sangle and V. D. Kumar	(2015) “Progressive Collapse Analysis of Steel Framed Structure”	International Conference on Earthquake Engineering and Seismology, , 12-13 May, 2015.
S.S.Pendhari and VivekGaval	“3D Stress Analysis of Simply Supported Functionally Graded Plate Varied Exponentially Through Thickness”, pp.73-76. ISBN:978-93- 85465-78-9	Proceedings of ISER 4 <sup>th</sup> International Conference, Bangkok, Thailand, 16 <sup>th</sup> August 2015
K.S. Shinge and S.S. Pendhari	“Use of Red Mud for Partial Cement Replacement”.	Proceedings of 4 <sup>th</sup> International Conference on Recent Trends in Engineering and Technology, Nashik, India, pp. 307-312, July 2-4, 2015
M.P. Mahajan and S.S. Pendhari (2015)	“3D Stress Analysis of Functionally Graded Plate under Static Loading Condition”	Proceedings of 4 <sup>th</sup> International Conference on Recent Trends in Engineering and Technology, Nashik, India, pp. 303-307, July 2-4, 2015.

#### **Seminars/Conference/Workshop Organized / activities co-coordinated**

<b>Faculty involved</b>	<b>Title of Conference</b>	<b>Sponsoring Organizer, Year &amp; Month</b>
Dr. S.S. Pendhari Dr. Abhay Bambole Dr. V.B. Deshmukh	6th International Congress on computational Mechanics and Simulation	IIT Bombay Structural and Engineering Dept 27 <sup>th</sup> June to 1 <sup>st</sup> July 2016
Dr. M.A. Chakrabarti VJTI & Dr. V.B. Deshmukh	Sustainability in Geotechnical Engineering Practices & Related Urban issues on 23-24 September 2016, Mumbai	Ramada Hotel, Powai

#### **Training Program/Seminars/Conferences attended**

<b>Faculty staff involved</b>	<b>Title of Programme</b>	<b>Details</b>
Dr. V. B. Deshmukh , Dr. K. K. Sangle Dr. M. A. Chakrabarti, Dr. A. N. Bambole, Dr. Sandeep S. Pendhari, P. W. Kubde, J. G. Solanki	Sixth International Conference on Computational Mechanics and Simulation,	IITB, July 2016

## TEXTILE MANUFACTURES DEPARTMENT

### Department Overview

Department of Textile Manufactures is established in the year of 1883 as mother branch of VJTI and popularly known as Ripon's school of Textiles. The department is consisting of basic conventional as well as modern spinning, weaving, processing, textile testing machines and equipment besides advance textile materials lab equipment (Composites, Coating Laminating and Table top looms). Department offers courses in Diploma in Textile Manufacturing (DTM), B.Tech, (Textile Technology), M.Tech (Textile Technology) and Ph.D. in Textile Technology. Currently 9 students have registered for Ph.D programme in Textile Technology discipline working with wide range of research areas viz. nontechnology in textiles, medical textiles, textile composites, conductive textiles, green composites, surface modification of textile materials etc.

The department is having well qualified faculty members with specialization in both manufacturing and processing of textiles and allied area, who always plays crucial role in strengthening the department facilities in various aspects such as lab development, arranging training program for students by inviting eminent and professional speakers from industry which helping students to develop not only the sound technicality but also the soft skill knowledge. Senior faculty members are always engaged in both national and international assignments to solve current industrial problems; also they are regularly invited by government bodies such as DST, AICTE, and KVIC etc. as an expert person to evaluate the scientific projects, also they are involved in Ph. D. thesis evolution committee in government institutions and universities in India. The department always motivates the students especially masters and Ph.D scholars to take part in the national and international conferences/workshops to showcase their research work across the globe.

### Faculty List

#### Regular Faculty :

Sr. No.	Name	Designation
1	Dr. V.D.Gotmare	HOD, Associate Professor
1	Dr. A.K.Rakshit	Professor
2	Dr. S.P.Borkar	Professor, Dean Administration
4	A.L.Bhongade	Associate Professor
5	Dr. S. Gangopadhyay	Assistant Professor
6	S. A. Patil	Assistant Professor
7	P. N. Deshmukh	HOD (Diploma), Lecturer (Selection Grade)
8	Dr. Deepa Raisinghani	Lecturer (Selection Grade)
9	A. N. Baliga	Lecturer (Selection Grade)
10	S. N. Tetambe	Lecturer
11	Dr. D. P. Kakad	Lecturer

#### Adhoc & Visiting Faculty:

Sr. No.	Name	Designation
1	Ms. Piyali Hatua	Contractual Faculty
2	Ms.Swati Chaudhari	Contractual Faculty
3	Ms.Manisha Tarale	Contractual Faculty
4	Ms.Priyanka Sapkale	Contractual Faculty
5	Ms.Prachity Wankhede	Contractual Faculty
6	Ms. Pranoti Dhupe	Contractual Faculty
7	Ms.Pooja Kale	Contractual Faculty

#### Non-Teaching staff:

Sr. No.	Name	Designation
1.	C.R. Mirashi	Sr. Instructor
2.	M. Hussain	Instructor



3.	S.M. More	Instructor
4.	C.P. Patankar	Instructor
5.	S.D. Shinde	Instructor
6.	S.N. Patkar	Assistant Instructor
7.	J.R. Devas	Assistant Instructor
8.	N.V. More	Assistant Instructor
9.	N.M. Gaonkar	Assistant Instructor
10.	M.G. Lad	Lab Assistant
11.	H.P. Tambe	Lab Assistant
12.	A.S. Pawar	Lab Assistant
13.	C.G. Kajwe	Lab Attendant

### **Activities/Achievements of Faculty (Duration – July 2016 to June 2017)**

#### **A) Achievements**

<b>Faculty/Students involved</b>	<b>Achievement</b>	<b>Dates</b>
Dr. V. D Gotmare	Awarded as Honorary Fellow of Textile Association of India, 4 <sup>th</sup> International & 72 <sup>nd</sup> All India Textile Conference to be held on 27-28 <sup>th</sup> January 2017 held at	27 January 2017
Dr. V. D Gotmare	ITTAMA Award Jury, Held at Copper chimney Fort, Mumbai	2016
Dr. V.D.Gotmare	Managing Committee Member, Textile Association of India (Mumbai Unit)	2016-2017
Dr.V.D.Gotmare	Nominated as Sub- Committee Member ( S & T), Directorate of Science and Technology, Khadi and Village Industries Commission, Government of India	2016-2017
Dr.V.D.Gotmare	Expert member ,Directorate of Human Resource Development, Khadi and Village Industries Commission (KVIC), Government of India,	2016-2017
Dr. V. D. Gotmare	Appointed as Chairman, Khadi Eco Mark Committee, Khadi and Village Industries Commission (KVIC), Government of India	2015-2016
Dr. A. K. Rakshit	Examiner of Research proposals for Instrument development programme (IDP), DST, Ministry of Science and Technology	May 2016 Onwards
Dr. A. K. Rakshit	External examiner for evaluation of Ph.D Open Defence at NIT Jalandhar.	Oct 2016 Onwards
Dr. A. K. Rakshit	Attended DST Special assistance Program (SAP)	Nov. 2016
Dr S P Borkar	Dean Administration VJTI	2017
Dr S P Borkar	Chairman- Scholarships (VJTI)	2017
Dr S P Borkar	Appellate Officer- RTI (VJTI)	2017
Prof. A. L. Bhongade	Workshop Superintendent, Textile Mfgs. Dept.	Since March 2012
Prof. A. L. Bhongade	Representative, Mumbai Cricket Association	Since 2010
Prof. A. L. Bhongade	Member secretary of Departmental Academic Committee (DAC - PG)	2017
Prof. A. L. Bhongade	Member of Departmental Academic Committee (DAC - UG)	2017
Prof. A. L. Bhongade	Member of UG & PG Syllabus revision committee.	2017
Prof. A. L. Bhongade	Member UG/PG Examination Unfair means Committee	2017
Dr. Suranjana Gangopadhyay	Textile Department coordinator for NBA Accreditation activity.	Since September 2015

Dr. Suranjana Gangopadhyay	Appointed as “Departmental Coordinator” of NIRF (National institute wise Ranking Frame-work)	Since October 2015
Dr. Suranjana Gangopadhyay	Member secretary of Departmental Academic Committee (DAC- UG)	Since July 2014
Dr. Suranjana Gangopadhyay	Programme coordinator of M.Tech (Textile Technology)	Since July 2014
Dr. Suranjana Gangopadhyay	Member of institute level ‘Quality Assurance Cell’ of VJTI-Mumbai.	Since February 2016
Dr. Suranjana Gangopadhyay	Member of UG & PG Syllabus revision committee.	Since July 2014
Aarti Baliga	Member of the Hostel Advisory Committee	2017
Aarti Baliga	Member of Curriculum development of Programmewise Board of Studies ( PBOS)- Syllabus revision 2013 and 2017.	R13 & R17
Aarti Baliga	Registered for Ph. D under the guidance of Dr. Shashikant.P. Borkar	2012
Dr D P Kakad	Completed PhD	December 2017
Sunil Tetambe	Registered for Ph. D under the guidance of Dr. V. D. Gotmare	2015

### B) Training attended ( Faculty):

Name of Faculty	Area of Training	Venue	Duration	
			From	To
Prof. A. L. Bhongade	Mathematics and Statistical Foundatons in Engineering Applications (TEQIP-II)	VJTI, Mumbai	16/09/2016 and 12/10/2016	19/09/2016 and 17/10/2016
Dr. Suranjana Gangopadhyay	Biology for Engineers	AICTE sponsored QIP at IIT Mumbai	06/06/2016	11/06/2016
Dr. Suranjana Gangopadhyay	Mathematics and Statistical Foundatons in Engineering Applications (TEQIP-II)	VJTI, Mumbai	16/09/2016 and 12/10/2016	19/09/2016 and 17/10/2016
Dr. Suranjana Gangopadhyay	IIT , Bombay	Attended International Symposium On Advanced Structural Technical Textile	-	19 <sup>th</sup> July 2017
Dr. D. V. Raisinghani	Use of ICT in Education for online and blended learning	K. J. Somaiya (RC), Mumbai	2 <sup>nd</sup> May 2016	10 <sup>th</sup> July 2016
Dr. D. V. Raisinghani	Computer Aided Textile Design Training – Wonder Weaves System	Wonder Weaves Systems, Mumbai	19 <sup>th</sup> Dec 2016	23 <sup>th</sup> Dec 2016
Dr. D. V. Raisinghani	Warp Knit Basic Course	Karl Mayer Academy, Surat	26 <sup>th</sup> June 2017	30 <sup>th</sup> June 2017
Dr. D. P. Kakad	One week faculty development programme on New trends in biomedical signal processing	VJTI	16 <sup>th</sup> January, 2017	21 <sup>st</sup> January, 2017

Dr. D. P. Kakad	One week training programme on Advances in structural Mechanics	Global Initiative of Academic Networks (GIAN), Ministry of Human Resource Development, Govt. of India	20 <sup>th</sup> February 2017	25 <sup>th</sup> February 2017
Dr. D. P. Kakad	Hotel Sahara Star, Mumbai	World Textile Conference 2	16 <sup>th</sup> September 2016	17 <sup>th</sup> September 2016
Dr. D. P. Kakad	Two weeks faculty development programme on Machine learning Tools and Application for Engineers	VJTI	12 <sup>th</sup> June 2017	21 <sup>st</sup> June 2017
Aarti Baliga	Biology for Engineers	AICTE sponsored QIP at IIT Bombay	06/06/2016	11/06/2016
Aarti Baliga	Mathematics and Statistical Foundatons in Engineering Applications (TEQIP-II)	VJTI, Mumbai	16/09/2016 to 12/10/2016	19/09/2016 to 17/10/2016
S.N.Tetambe	Textile Structure and Structural composites	TEQIP II by Department of Textile technology at IIT-D	15/02/2016	18/02/2016
S.N.Tetambe	Mathematics and Statistical Foundatons in Engineering Applications (TEQIP-II)	VJTI, Mumbai	16/09/2016 to 12/10/2016	19/09/2016 to 17/10/2016
Aniket Gajbhiye	AYM Syntex Ltd. Silvassa, Gujarat.	Delivered a lecture on “Agrotextiles: Production & Applications” for the GET’s.	-	02 <sup>nd</sup> August 2016
Aniket Gajbhiye	ICT, Matunga Mumbai	Attended One Day Workshop on “Plasma Processing Of Material”	-	12 <sup>th</sup> September 2016
Aniket Gajbhiye	Hotel Sahara Star, Mumbai	World Textile Conference 2	16/09/2016	17/09/2016
Aniket Gajbhiye	Bombay Convention & Exhibition Centre, NSE Complex, Goregaon, Mumbai	Participated as an Exhibitor in ITME 2016 representing VJTI college, known as one of the knowledge partners for the event.	3rd December 2016	8th December 2016
Aniket Gajbhiye	College of Engineering and Technology (CET), Bhubaneshwar	Attended One Week Short term Course on Advances in Woven Fabric Formation and Structure	19th December 2016	23 <sup>rd</sup> December 2016
Aniket Gajbhiye	VJTI, Mumbai.	Participated in One week AICTE-QIP sponsored short term course on “Research Methodology” organized by Mechanical Engineering Department, VJTI, Mumbai.	4th March 2017	09 <sup>th</sup> March 2017

Aniket Gajbhiye	Hotel Fortune Park Galaxy, Vapi, Gujarat.	Attended National Seminar on Opportunities in the Current Challenges in Weaving Sector.	-	22 <sup>nd</sup> April 2017
Aniket Gajbhiye	IIT , Bombay	Attended International Symposium On Advanced Structural Technical Textile	-	19 <sup>th</sup> July 2017

### C) Publications:

Name of Faculty / & Student	Details of Paper Published		Date
	Title of Paper	Title of Journal/Conference	
Dr.V.D.Gotmare & S.S.Kole	“Development of non-toxic Textile Structure for Health care Applications using Bio nanotechnology: An Overview”	Colourage Publication	July 2016
Dr.V.D.Gotmare & S.S.Kole	“Ecological and Economical Advantages of Utilization of Textile Waste Material in Construction Industry”	Man Made Textile in India SASMIRA Mumbai	July 2016
Nitin. T. Patil, S. P. Borkar, Stephan Weidner-Bohnenberger and Marc Schnell	Impact on Rotor & Air-Jet Yarn Properties Due To Components And Parameter	Textile Value Chain , Vol.4 .Issue12., page no. 23-27.Mumbai.	Dec (2016),
Nitin. T. Patil and S. P. Borkar	Yarn Structure and its impact On Softness,	Textile Times, Vol. 12, page no. 04-07.	June-July 2017
Nitin. T. Patil , S. P. Borkar, Stephan Weidner-Bohnenberger and Marc Schnell	Impact on fabric hand on knitted fabric made of ring, rotor and air-jet yarn	Melliand International, Germany March 17, vol. 23, page no. 20-24	March 17
Nitin. T. Patil, S. P. Borkar and Stephan Weidner-Bohnenberger, Marc Schnell	Impact on fabric hand on knitted fabric made of ring, rotor and air-jet yarn,	China Textile Leader, , vol. 04, page no. 61-65.	April 2017
Nitin. T. Patil, S. P. Borkar, Stephan Weidner-Bohnenberger, Marc Schnell	An Effect of Spinning Process, Yarn Structure And Finishing Process On Knitted Fabric Hand Value	International Journal of Textile and Clothing Science, Volume: 01 Issue: 01, .	June-2017
Nitin. T. Patil, S. P. Borkar, Stephan Weidner-Bohnenberger and Marc Schnell,	Impact on Rotor & Air-Jet Yarn Properties Due To Components and Parameter	Journal of Textile Association, vol. 77, page no. 297-304	Jan-Feb 2017
Nitin. T. Patil , S. P. Borkar, Stephan Weidner-Bohnenberger and Marc Schnell	Impact on Rotor & Air-Jet Yarn Properties Due To Components And Parameter	The Indian Textile Journal, vol. 12, page no. 74-77.	Feb-2017
Nitin. T. Patil , S. P. Borkar,	Impact on Rotor & Air-Jet Yarn Properties Due To Components	Textile Trend, vol. 11, page no. 32-38.	Feb-2017

Stephan Weidner-Bohnenberger and Marc Schnell	And Parameter		
Aarti Baliga, Shashikant Borkar	A review of the 3D designing of scaffolds for tissue engineering with a focus on keratin protein	Journal of emerging technologies and innovative research	Oct-2016
Aarti Baliga, Shashikant Borkar	In vitro characterization of scaffolds for tissue engineering-A review	International Journal of Advanced Engineering Research and Science (IJAERS)	Oct- 2016
Aarti Baliga, Shashikant Borkar	In Vitro Cytotoxicity Characterisation of Keratin Protein for Tissue Engineering Applications	Journal of Engineering and Applied Sciences	Aug -2017
Arvind L Bhongade and Dr. S. P. Borkar	Studies on treated sunhemp and treated Jute fiber reinforced epoxy composites	International Journal of Advanced Engineering Research and Science, Vol. – 3, Issue – 10, 013 – 016	Oct – 2016
Arvind L. Bhongade and Dr. S. P. Borkar	Use of Lignin as a Compatibilizer in sunhemp fiber reinforced epoxy composites	International Journal of Advanced Engineering Research and Science, Vol. – 3, Issue – 10, 036 – 039	Oct – 2016

#### D) Invitation / Hon.Appointment:

1. Dr V D Gotmare was invited by NMIMS and Welspun Syntex Pvt. Ltd Vapi, as an expert for a topic entitled “Optimal Process Control in Melt Spinning Operations” on 22 July 2016.
2. Dr. V. D. Gotmare was Team member, QRT team CIRCOT, ICAR, Min. of Agriculture, GOI, Jan 2017
3. Dr. V. D. Gotmare was, Invited at ICT for question paper auditing 2017
4. Dr. V. D. Gotmare was Appointed as V.C nominee, SGGS Nanded, SRTM University Marathwada
5. Dr. V. D. Gotmare is appointed as Panel member Ph.D interview, Mukesh Patel School of Technology, Management and Engg., NMIMS, Mumbai 16
6. Dr. V. D. Gotmare is appointed Ph.D Thesis evaluator at ICT, Mumbai
7. Dr. V. D. Gotmare is appointed BOS, member at Textile and Engg. Institute, Ichalkarnaji
8. Dr. V. D. Gotmare is appointed Mentor, Conduct of attachment training for CIRCOT Scientist, Mumbai-19
9. Dr.A.K Rakshit was invited by ITME Society for delivering lecture on “Market Scenario for Technical Textiles”
10. Dr.A.K Rakshit is appointed Mentor for Ph.D program at NIT Jalandhar
11. Dr.A.K Rakshit is appointed as research member for SVITS University at Indore.
12. Prof. A. L. Bhongade was invited as B. C. Nominee on ICAR, Mumbai, Promotion for technical staff.
13. Dr Suranjana Gangopadhyay was invited as expert member for a Panel Discussion on Wearable Textile Materials at S.T.E.A.M. School at Makers’ Assylum, Mumbai.
14. Dr Suranjana Gangopadhyay was invited as expert member for a meeting arranged by Bureau of Indian Standards (BIS) on specifying quality standards of Advanced Textile Weaving and Embroidery Machines.
15. Dr Deepa Raisinghani appointed as Dean Diploma.
16. Aarti Baliga worked as the Departmental Time table co-ordinator for Diploma.
17. Sunil Tetambe worked as Member secretary- Curriculum development of Programmewise Board of Studies ( PBOS)- Syllabus revision 2013
18. Sunil Tetambe worked as Departmental Examination Coordinator
19. Sunil Tetambe worked as Textile Department Coordinator of Annual Report Committee

20. Sunil Tetambe worked as Coordinator for MSBTE Equivalence Committee
21. Sunil Tetambe worked as Coordinator for MSBTE Academic Monitoring Committee
22. Sunil Tetambe worked as Departmental Registration coordinator
23. Sunil Tetambe worked as Member of Syllabus revision committee ( R-2017)
24. Sunil Tetambe worked as Textile Department Student Internship coordinator
25. Dr D P Kakad appointed as Faculty incharge for Second year diploma students
26. Dr D P Kakad worked as Chief coordinator for National Level Paper presentation VASTRA-2017.
27. Dr D P Kakad worked as Member secretary- Curriculum development of Programmewise Board of Studies ( PBOS)- Syllabus revision 2017
28. Dr D P Kakad worked as In charge of Diploma Admission 2016-17
29. Dr D P Kakad appointed as In charge of ARC3012 Diploma
30. Dr D P Kakad appointed as In charge of FC3012 Diploma
31. Dr D P Kakad appointed as Hostel Rector
32. Dr D P Kakad appointed as Faculty Advisor for Social Group
33. Dr D P Kakad appointed as Member of Canteen committee
34. Dr D P Kakad appointed as In-charge for hostel student activities
35. Dr D P Kakad appointed as In-charge of Textile Physics laboratories
36. Dr D P Kakad appointed as Member of earn while learn committee
37. Dr D P Kakad appointed as Member of diploma convocation committee
38. Dr D P Kakad appointed as Departmental coordinator for the development of infrastructure.
39. Dr D P Kakad appointed as Institute level scholarship committee member.
40. Dr D P Kakad appointed as subject expert at Amravati University.
41. Dr. Neha Mehra worked as Department timetable coordinator
42. Dr. Neha Mehra worked as Department exam co-coordinator
43. Dr. Neha Mehra appointed as member of institute level committee for B. Tech. Admission
44. Dr. Neha Mehra appointed as member of institute level committee for Ph.D Admission

**E) Other activities of staff-members at Institute level or outside institute**

1. Dr Suranjana Gangopadhyay was the Textile Department representative at institute level ‘Quality Assurance Cell’ of VJTI-Mumbai.
2. Dr D P Kakad invited as Expert for Question Paper Setting Committee, NMIMS, Shirpur.

**Activities/Achievements of Students: (Duration – July 2016 to June 2017)**

Department	Names of Students	Class	Details of Activity	Venue	Date/Month
Textile Manufactures Department	Sushant Kole	PhD Scholar, 2 <sup>nd</sup> Year	Delivered a lecture on “Optimal Control in Melt Spinning Operations” for the GET’s.	AYM Syntex Ltd. Silvassa, Gujarat.	29 <sup>th</sup> July 2016
Textile Manufactures Department	Sushant Kole	PhD Research Scholar, Second Year	World Textile Conference 2	Hotel Sahara Star, Mumbai	16 <sup>th</sup> to 17 <sup>th</sup> September 2016
Textile Manufactures Department	Sushant Kole	Ph.D. scholar 2 <sup>nd</sup> year	Attended workshop on “Plasma processing of material”	ICT, Matunga Mumbai	12 <sup>th</sup> September 2016

Textile Manufactures Department	Sushant Kole	Ph.D. scholar 2 <sup>nd</sup> year	Attended international textile conference “Make in India” global vision of Indian textile Industry	Hotel Lalit, Mumbai	1 <sup>st</sup> & 2 <sup>nd</sup> Dec.2016
Textile Manufactures Department	Sushant Kole	Ph.D. scholar 2 <sup>nd</sup> year	Participated in ITME 2016 as one of the exhibitor for representing VJTI college who is one of the Knowledge partner for this event	Bombay Convention & Exhibition Centre, NSE Complex, Goregaon, Mumbai	3rd - 8th December 2016
Textile Manufactures Department	Sushant Kole	Ph.D. scholar 2 <sup>nd</sup> year	Attended 14 <sup>th</sup> International and 72 <sup>th</sup> all India Textile Conference	Bhopal	Dec.2016
Textile Manufactures Department	Sushant Kole	Ph.D. scholar 2 <sup>nd</sup> year	Attended National Seminar on Opportunities in the Current challenges in Weaving Sector	Hotel Fortune Park Galaxy, Vapi	22 <sup>nd</sup> April 2017
Textile Manufactures Department	Rohit Naik	Ph.D. scholar 1 <sup>st</sup> year	Deliver Expert lecture on “Sport textiles : An overview”	DKTE’S Textile and engineering Institute, Ichalkaranji.	11 <sup>th</sup> Aug.2016
Textile Manufactures Department	Rohit Naik	Ph.D. scholar 1 <sup>st</sup> year	Attended workshop on “Plasma processing of material”	ICT , Matunga Mumbai.	12 <sup>th</sup> Sept. 2016
Textile Manufactures Department	Rohit Naik	Ph.D. scholar 1 <sup>st</sup> year	Attended international textile conference “Make in India” global vision of Indian textile Industry	Hotel Lalit, Mumbai	1 <sup>st</sup> & 2 <sup>nd</sup> Dec.2016
Textile Manufactures Department	Rohit Naik	Ph.D. scholar 1 <sup>st</sup> year	Participated in ITME 2016 as one of the exhibitor for representing VJTI college who is one of the Knowledge partner for this event.	Bombay Convention & Exhibition Centre, NSE Complex, Goregaon, Mumbai	3rd - 8th December 2016
Textile Manufactures Department	Rohit Naik	Ph.D. scholar 1 <sup>st</sup> year	Participated as B2B (Business to Business) co Ordinator for TECHNOTEX 2017	Bombay Exhibition Centre, NSE Complex, Goregaon	12 <sup>th</sup> to 14 <sup>th</sup> April 2017

Textile Manufactures Department	Rohit Naik	Ph.D. scholar 1 <sup>st</sup> year	Attended Nonwoven Tech Asia exhibition.	Bombay Exhibition Centre, NSE Complex, Goregaon, Mumbai	8 <sup>th</sup> to 10 <sup>th</sup> June 2017
Textile Manufactures Department	Rohit Naik	Ph.D. scholar 1 <sup>st</sup> year	Attended International symposium On advanced structural Technical Textile	IIT , Bombay	19 <sup>th</sup> July 2017
Textile Manufactures Department	Tushar Kolekar Mayuri Kathole Trusha Pithadiya Aoienna Pushpa Belorkar	MTech 2 <sup>nd</sup> year	Attended international Textile Conference “Make in India” global vision of Indian textile Industry	Hotel Lalit, Mumbai	1 <sup>st</sup> & 2 <sup>nd</sup> Dec. 2016
Textile Manufactures Department	Mayuri Kathole Trusha Pithadiya	MTech 2 <sup>nd</sup> year	Participated in TECHNOTEX 2017	Bombay Exhibition Centre, NSE Complex, Goregaon	12 <sup>th</sup> to 14 <sup>th</sup> April 2017
Textile Manufactures Department	Anupama Rajput	MTech 1 <sup>st</sup> Year	Attended international textile conference “Make in India” global vision of Indian textile Industry	Hotel Lalit, Mumbai	1 <sup>st</sup> & 2 <sup>nd</sup> Dec. 2016

### Training Attended by the students:

Names of Students	Class	Area of Training	Venue	Date/Month
Devanshi Shinde Yogini Salavi Saddam Mansuri Moin Khan Harshada Kadam	Final Year	Textile	Stericott Health Ind.Est. Gujrat	13 <sup>th</sup> September 2016
Atharva Shrivastava	B Tech	Textile	Reliance Ind . Silvasa	5 <sup>th</sup> December to 25 <sup>th</sup> December 2016
Pratiksha More Swamini Shintre	II DTM	Textile	Siyaram Silk Ltd. Lower Parel.	1 <sup>st</sup> December to 15 <sup>th</sup> December 2016
Apeksha Karekar	B Tech	Textile	Arvind Mill, Ahmadabad	16 <sup>th</sup> December to 5 <sup>th</sup> January 2017
Hemangi Roge Rutuja Khedekar Ashabi Shaikh Shraddha Swami Vaishanvi Khobragade Tanvi Palvecha Sameer Memon	B Tech	Textile	TATA Mills, Dadar	28 <sup>th</sup> November to 12 <sup>th</sup> December 2016



Chandramadi Tiwari Vikas Tiwari Ritesh Yadav Akshay Borkar	B Tech	Textile	Welspun Gujarat	3 <sup>rd</sup> December to 31 <sup>st</sup> December 2016
Meghna Adepur Lavina Gavali	DTM	Textile	Century Rayon ,Thane	1 <sup>st</sup> December to 15 <sup>th</sup> December 2016
Vaishali Pawar Muskan Idrisi Snehal Jatar	B Tech	Textile	NTC ,Dadar	5 <sup>th</sup> December to 20 <sup>th</sup> December 2016
Nishigandha Dhanke Rakesh Thakare Rushikesh Chavan Sanjana Sapkal Pradnya Borse	DTM	Textile	TATA Mills, Dadar	1 <sup>st</sup> December to 30 <sup>th</sup> December 2016.
Karishma Kuthe Ravindra Kore	B Tech	Textile	Gherizi Consulting Kalina	1 <sup>st</sup> December to 24 <sup>th</sup> December 2016
Monica Patil	DTM	Textile	Century Rayon ,Thane	20 <sup>th</sup> December 2016 to 20 <sup>th</sup> December 2017
Rutuja Khedekar Sapana Dongarakar Ashwin Agrawal	BTech	Textile	Global Nonwoven Nasik	7 <sup>th</sup> December to 22 <sup>nd</sup> December 2016
Fahimuddin Sayyed	BTech	Textile	Lifestyle Apparel Ahmadabad	5 <sup>th</sup> December to 24 <sup>th</sup> December 2016
Shraddha Mahajan Dipali Sapate	BTech	Textile	Siyaram Silk Ltd. Lower Parel	11st December to 24 <sup>th</sup> December 2016
Krishna Rathi	BTech	Textile	Madhusudan Group Gujarat	26 <sup>th</sup> November to 25 <sup>th</sup> December2016
Iswari Vidhate Megha Sanap Kajal Arikar Supriya Bandal	BTech	Textile	Siyaram Silk Ltd. Lower Parel	7 <sup>th</sup> December to 24 <sup>th</sup> December 2016
Sakshi Gavande Priya Kadam Harshada Kadam Nitin Nalawade	DTM	Textile	NTC ,Dadar	12 <sup>th</sup> December to 24 <sup>th</sup> December 2016
Yojana Kamble Devyani Pandit Mahesh Patil Moin Khan	DTM	Textile	NTC ,Dadar	12 <sup>th</sup> December to 24 <sup>th</sup> December 2016
Abhilash Parkhad	BTech	Textile	Dystar Navi Mumbai	15 <sup>th</sup> May to 31 <sup>st</sup> May2017
Rishi Gupta Megha Sanap	BTech	Textile	Dystar Navi Mumbai	15 <sup>th</sup> May to 30 <sup>th</sup> June2017
Ameer Phatan Ajay Karwar Hoshang Khadare Vivek Bhalerao Rohit Lad	B Tech	Textile	Welspun Gujarat	5 <sup>th</sup> June to 3 <sup>rd</sup> July 2017

Rupesh Kamdi Mayank Bhowate	B Tech	Textile	Morarjee Textile, Nagpur	15 <sup>th</sup> May to 15 <sup>th</sup> June 2017
Abhilash Parkhad Rutuja Khedekar Sapana Dongarakar	B Tech	Textile	Garware Wall Rops, Pune	10 <sup>th</sup> May to 24 <sup>th</sup> May 2017
Sameer Memon Hemangi Roge Sarika Kumbhar Priti Birajdar	B Tech	Textile	Global Nonwoven Nashik	12 <sup>th</sup> May to 26 <sup>th</sup> May 2017
Ishwari Vidhate Ashabi Shaikh Ashwini Sapkale	B Tech	Textile	Kusumgar Gujarat	15 <sup>th</sup> May to 30 <sup>th</sup> May 2017
Vaishanvi Khobragade Sameer Memon Sapana Dongarakar Sarika Kumbhar Priti Birajdar Abhilash Parkhad Hemangi Roge Rutuja Khedekar Ashwin Agrawal	B Tech	Textile	Indocount ,Kolhapur	1 <sup>st</sup> June to 20 <sup>th</sup> June2017

#### Visits of dignitaries/committees:

	Name/Designation of the person	Event	Topic	Date
1.	Mr. Jeess Johnson, Senior Merchandiser, Hindustan Apparel Industries	Industry Institute Interaction Lectures on every Wednesday of the academic year 2015-16.	Scope & Role of Merchandising in Textile Industry	22/07/2015
2.	Mr. Pritam Desai, Manager, Reliance Industries Ltd.		Polyester Manufacturing	29/07/2015
3.	Mr. Vikas Sharan, Vice President, A.T.E		Advancement in Nonwoven Manufacturing & Application of Nonwovens in Technical Textiles	05/08/2015
4.	Mr. Bhavin Bhatt, GM, Welspun Global Brands Limited		International Marketing in Current Retail Environment	12/08/2015
5.	ShrinidhiNadgauda, Vice President, Sales & Marketing, Intermarket Pvt Ltd.		Future for Textile Engineers	02/09/2015
6.	Remya Nair, Research Manager, Zee Learn		Exploring Beyond Syllabus	14/09/2015
7.	Mr. Shailesh Thakur Marketing Manager A.T.E. India Pvt. Ltd.		Latest advancement in spinning	17/2/2016
8.	Mr. Rajesh Padalkar Marketing Manager A.T.E. India Pvt. Ltd.		Journey of cotton	17/2/2016

9.	Mr. itendra Shah Consulatant, IIT Bombay, Pawai		Community , Technology And Environment	02/03/2016
10.	Mrs. Trupti Patil Advocate, Mumbai Court		Cyber Law	09/03/2016
11.	Mr. Ganesh Deshmukh, HOD (CIVIL Dept.) Pankaj Laddhad Engg. College, Buldhana, Maharashtra	Industry Institute Interaction Lectures for the academic year 2016-17 (Diploma)	Mathematical Counselling (For SEM III)	12/09/2017
12.	Mr. Ganesh Deshmukh, HOD (Civil Dept.) Pankaj Laddhad Engg. College, Buldhana, Maharashtra		Mathematical Counselling (For SEM V)	13/09/2017
13.	Mr. Mahemkar, Gadhkille Bhramanti Group, Mumbai		Conservation of Heritage Buildings (For SEM III)	19/09/2017
14.	Ms. Sushila Munde, Social Worker, Mumbai		Anti-superstition Law (For SEM III)	26/09/2017
15.	Mr. Tarun Dev, Shanir Management Services, Mumbai		Emotional Intelligence (For SEM V)	27/09/2017
16.	Mr. Sawant, Member of Sanvidhan Sawarndhan Samiti, Mumbai		Constitution of India (For SEM V)	04/10/2017
17.	Ameya Arun Shete Regulus, Health care, Mumbai		Health and Hygine (For SEM III)	10/10/2017
18.	Ms. Sushila Munde, Social Worker, Mumbai		Anti-superstition Law (For SEM V)	11/10/2017
19.	Mr. Sawant, Member of Sanvidhan Sawarndhan Samiti, Mumbai		Constitution of India (For SEM III)	31/10/2017
20.	Mr. Mahemkar, Staff, VJTI, Mumbai		Conservation of Heritage Buildings (For SEM V)	01/11/2017
21.	Mr. Tarun Dev, Shanir Management Services, Mumbai		Emotional Intelligence (For SEM III)	07/11/2017
22.	Ameya Arun Shete Regulus, Health care, Mumbai		Health and Hygiene (For SEM III)	08/11/2017
23.	Ms. Sanjita Buddy	Industry Institute Interaction Lectures for the academic year 2016-17 (Degree)	Entrepreneurship in Textiles	25/09/2017
24.	Vikram Chaurasia & Guru Shetty		Latest Innovations In Warp Preparation And Warp Knitting Fields	27/09/2017
25.	Dr. Arun Thakare		Quality Is free " - Quality Management in organization to Improve Quality and Profit	04/10/2017
26.	Dr. Ashok Athalye		Multi-functional Finishing for	11/10/2017

			Textiles and Emerging Trends	
27.	Navin Agrawal & G.V. Aras		Warp Preparation & Advance Developments	23/11/2017

### Revenue generated from testing services:

Details of Activity	Major Clients	Amount (Rs/-)
Technical Test Fees	Maharashtra State Co-op marketing Federation Ltd.Kanmur House, Masjid Bandar, Mumbai – 19.	68,920/-
	Maharashtra State,co-op Marketing Federation Ltd,Vaibhav vetormany Food Products Factory,Bhoivihir, Dhule – 424311.	1011/-
	Maharashtra State,co-op Marketing Federation Ltd,Vaibhav vetormany Food Products Factory,Bhoivihir, Dhule – 424311.	1011/-
	Maharashtra State,co-op Marketing Federation Ltd,Vaibhav vetormany Food Products Factory,Bhoivihir, Dhule – 424311.	1011/-
	Maharashtra State Co-op marketing Federation Ltd.Kanmur House, Masjid Bandar, Mumbai – 19.	58290/-
	Maharashtra State Co-op marketing Federation Ltd.Kanmur House, Masjid Bandar, Mumbai – 19.	65577/-
	Maharashtra State CO-op Mahabeej Bhawan, Krishi Nagar, Akola – 444 104	758/-
	Maharashtra State Co-op marketing Federation Ltd.Kanmur House, Masjid Bandar, Mumbai – 19.	3036/-
	Major Clients	Amount (Rs)
Technical Test Fees	Maharashtra State CO-op Mahabeej Bhawan, Krishi Nagar, Akola – 444 104	1124/-
	M/s. Phoenix Traders, 4, Golden Lawns, Sion Trombay road, Mankhurd, Mumbai 400088.	2257/-
	Maharashtra State Co-op marketing Federation Ltd. Masjid Bandar, Mumbai – 9	2,34,728/-
	M/s Maharashtra State co-op marketing Federation ltd. Bhorvishir Dhule	3023/-

### Laboratory and Infrastructutre Development:

Area	Brief details	Funding Agency
Lab	Advanced Textile Physics Lab	VJTI
Software	Wonderweaves Software (10 Licenses) <ul style="list-style-type: none"> <li>• Dobby Master</li> <li>• Jacquard Master</li> <li>• Print Master</li> </ul>	VJTI
	Richpeace Garment CAD Software (10 Licenses)	VJTI
Machine	Laminar Flow Cabinet	VJTI
	Bacterological Incubator	VJTI

## TECHNICAL & APPLIED CHEMISTRY DEPARTMENT

### Department Overview:

The department of Technical and Applied Chemistry has been established in 1906 to make students proficient in basic and applied chemistry. To start with three programmes viz. i) Dyeing, Bleaching & Sizing, ii) Foods and Drugs, and iii) Oils & Fats were conducted. These diploma courses were recognized by Government of Maharashtra vide letter no. DCS/1061/5222040-E (I); dated 23<sup>rd</sup> August, 1961 for the purpose of recruitment to the posts and services in the state. These courses have been presently renamed and the department now conducts only two autonomous programmes viz. i) Diploma in Technical Chemistry (DTC) and ii) Postgraduate Diploma in Chemical Technology with specialization in Foods, Drugs and Cosmetics Analysis (PGFDC).

The subject 'Applied Chemistry' is common for all first year bachelor's Degree & Diploma students and thus the department shoulders the responsibility of teaching Chemistry to practically all students of the Institute. In addition to teaching work, faculties are involved in research activities. This department has received one AICTE RPS for the project entitled 'Developing Nanotechnology based water treatment system' sanctioned in 2011. (2011-13). The department also conducts industrial testing in the fields of textiles, paints, detergents, cements and other engineering materials.

**Department has Five well-equipped laboratories as below –**

Sr. No	Name of Laboratory	List of Major Equipments/Facilities
1	FY BTech Lab	Common glass apparatus for titration and distillation, Double distillation Units, Digital single pan balance, Analytical Balances, Redwood viscometer, Abel's Flash Point apparatus, Pensky Martin's Flash Point apparatus, pH meter, Refractometer, Brookfield viscometer, Trinocular microscope with digital camera, Digital burette, Electric hot air ovens, Muffle furnace, Water bath with digital temperature control, Water bath with Mechanical shaker, Incubator, Digital Conductivity meter.
2	Diploma Lab	
3	FDC Lab	
4	Dyeing & Bleaching Lab	Rota dyer, HTHP Dyeing Machine (complete SS304 with 250x12 SS 316 beaker with process controller), Water bath with digital temperature controller
5	Instrument Cum Research Lab	UV-Visible Spectrophotometers, Karl Fischer moisture titrator. Steam distillation unit, UV-Visible spectrophotometer, Constant temperature water bath, Hot plate with magnetic stirrer, Analytical Balance, Muffle furnace, Humidity oven, Vacuum oven.

### Computing Facility

Sr. No	Particulars	Availability
1	No of Computer terminals	16
2	Printers	3
3	OHP	2
4	LCD projector	2
5	Internet Accessibility	100 Mbps 24 hrs
6	No of Laptops	6

**Library Facility:**

Department has around 227 books in the Departmental library which includes books on basic chemistry, organic chemistry, inorganic chemistry, physical chemistry, Food chemistry, Drug & Medicinal chemistry, Textile chemistry, Cosmetic chemistry, Paint etc.

**1. Faculty List- (with Designation) (July 2015- June 2016)****List of Faculty members:**

Sr. No	Name	Designation	Highest Qualification	Email id
<b>Permanent Faculty</b>				
1	Dr. (Mrs) Sujatha P	Asst. Professor and Head	Ph.D. (Tech)	<a href="mailto:sujathap@vjti.org.in">sujathap@vjti.org.in</a>
2	Dr. S. M. Gaonkar (Voluntarily Retired on 29 Aug 2016)	Professor	Ph.D. (Tech)	<a href="mailto:smgaonkar@vjti.org.in">smgaonkar@vjti.org.in</a>
4	Dr. S. S. Lokegaonkar	Lecturer	Ph.D.	<a href="mailto:sslokegaonkar@vjti.org.in">sslokegaonkar@vjti.org.in</a>
5	Mr. A. S. Ashtikar	Lecturer	M.Sc.	<a href="mailto:asashtikar@vjti.org.in">asashtikar@vjti.org.in</a>
6	Dr. N. N. Wankhede	Lecturer	Ph.D.	<a href="mailto:nnwankhede@vjti.org.in">nnwankhede@vjti.org.in</a>
7	Mr. Mahendra S. Thorat	Lecturer	M.Sc.	msthorat@vjti.org.in
<b>Contractual Faculty</b>				
1	Ms. Abhilasha Dwivedi	Asst. Prof.	M. Sc.	abhilasha.rajiv81@gmail.com
2	Mr. Vikas Jain	Asst. Prof.	M.Sc.	vikas2cute@gmail.com
3	Reshma Sanap	Asst. Prof.	M.Sc	sanas.reshma@gmail.com
4.	Dr. Vishvabharati Malkar	Asst. Prof.	Ph.D.	malkarvv@gmail.com
5	Ms. Supriya Phale	Lecturer	M.Sc	supriyaphale@yahoo.in
7	S. K. Zulfikar	Lecturer	M Tech	skmdzulfikar05@gmail.com
8	Nikhil Shaiwale	Lecturer	M Tech	nikhilshaiwale@yahoo.com

**2. Achievements:**

Faculty involved	Achievements	Dates
<b>Faculty</b>		
Dr. S. S. Lokegaonkar	Member of Catalyst Society of India	Since 2014
Dr. N. N Wankhede	Life Member of Society for Materials Chemistry	Since April 2015
Mr. Mahendra S. Thorat	Life Member of Society for Materials Chemistry	Since April 2015

<b>Students</b>		
<b>Students involved</b>	<b>Achievements</b>	<b>Dates</b>
<b>DTC:</b> Kautilya Nyalkalkar Shwetanjali Rao Ravi Pathare	Worked as cooperate executive and event heads in Monster arena	Dec 2016

### 3. Developmental Activities:

<b>Area</b>	<b>Brief details</b>	<b>Sponsor</b>	<b>Amount</b>
<b>Laboratory development</b>			
Modernization of labs	PGFDC Lab, F.Y. B. Tech. Lab, Diploma Lab, Dyeing & Bleaching Lab, Instrument cum Research Lab	-	Rs. 2,00,000/-
Automation of Lab	Installation of Vertical Padding Mangle in Dyeing & Bleaching Lab		Rs. 2, 20,000/-

### 4. Revenue generated:

<b>Technical Test Fees</b>	<b>Major Clients</b>	<b>Amount (Rs.)</b>
Technical Testing work e.g. Chemicals and related product, etc.	Government, Semi-Government. Organizations, Municipal Corporations, CPWD, Public & Private Institutions.	23 Lakhs

### Staff Activities

#### 5. Paper presented:

<b>Faculty &amp; Co-authors involved</b>	<b>Title of paper</b>	<b>Title of Conference, Organizer Year &amp; Month</b>	<b>Citation No.</b>
Dr. N. N Wankhede	Study of interfacial interactions at CNT polymer interface using molecular dynamic simulations	National Conference on "Frontiers in Chemical Sciences and Drug Development" Organized by Department of Chemistry, Dr. Babasaheb Ambedkar Marathawada University Aurangabad, 17 <sup>th</sup> and 18 <sup>th</sup> March 2017.	

### 6. Seminars/Conference/Workshop Organized / activities co-coordinated

<b>Faculty involved</b>	<b>Title of Conference</b>	<b>Sponsoring Organizer, Year &amp; Month</b>
Dr. (Mrs) Sujatha P	Technical and Education Seminar Lecture on "Polymeric Materials in our Daily Life" by Dr. Rohitkumar H. Vora, Polymer Scientist & Educator from New Jersey, USA	Organized by Department of Technical and Applied Chemistry, VJTI, 29 Nov 2016

Dr. N. N Wankhede	QIP FDP on “Nanomaterials: Processing, Modelling and Applications”	Organized by Department of Production Engineering, VJTI, 19-24 March 2017
Mr. A. S. Ashtikar	Army officers' training program APTAM-27 & 28	IOCL, Feb & Sep 2016-Feb 17
Mr. M. S. Thorat	Army officers' training program APTAM-27 & 28	IOCL, Feb & Sep 2016-Feb 17

### 7. Training Program/Seminars/Conferences attended

Faculty staff involved	Title of Conference	Name of publisher, year & month
Dr. N. N Wankhede	QIP FDP on “Nanomaterials: Processing, Modelling and Applications”	Organized by Department of Production Engineering, VJTI, 19-24 March 2017
	QIP Workshop on “Renewable energy sources for sustainable development: Need technologies and policies”	Organized by Department of Mechanical Engineering, VJTI, 04-09 March 2017
	National Conference on “Frontiers in Chemical Sciences and Drug Development”	Organized by Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University Aurangabad, 17 <sup>th</sup> and 18 <sup>th</sup> March 2017

### 8. Other activities of staff-members at Institute level or outside Institute

Faculty involved	Title	Dates
Dr. (Mrs) Sujatha P	Working as Head T. & A. Chemistry Deptt..	Since Aug 2014
	Working as First Year Degree Academic Committee member	2016
Dr. S.S. Lokegaonkar	Working as Dean Diploma	2016
Mr. A.S. Ashtikar	Working as Incharge Head Diploma	2016
	Working as Resource person for Army Training Programme APTAM at IOC, Bandra	2016
Dr. N. N Wankhede	Working as a member of Annual Report Committee	2016
	Working as Time Table coordinator for FY DTC	2016
	Working as Advisory member for NGO ECO NEEDS FOUNDATION working on environment	Since 2008



	Working as a member of Institute BC Cell	2016
	Working as a Departmental Coordinator for Diploma Convocation	2016
	Working as a Departmental Coordinator for NBA	2016
	Working as a Senior Supervisor for Diploma Examination	2016
	Working as a member of Institute level committee to observe/celebrate National Days	2016
	Worked as Sub liaisoning officer (SLO) for MHCET 2017 held in May 2017	2017
Mr. M. S. Thorat	Worked as a member of Admission committee for FY Diploma	2016
	Working as Time Table coordinator for DTC and PGFDC	2016
	Working as Departmental Exam Coordinator for DTC and PGFDC	2016
	Departmental Library Incharge	2016
	Working as Resource person for Army Training Programme APTAM at IOC, Bandra	2016-17
	Working as Member of "Mahatma Phule Education Trust", Kaij Dist Beed, Maharashtra State.	Since 2008
	Worked as Sub liaisoning officer (SLO) for MHCET 2017 held in May 2017	2017

#### 9. Students Association activities:

Activity description	Brief details	Dates
Seminar Presentation	Seminar Presentation (30 students presented their work based on inplant training)	Aug 2016
HPTLC Training Program	The students of III PGFDC attended training program conducted by M/s Anchrom Services Pvt. Ltd., Thane for getting hands on experience on advanced HPTLC System made by M/s Camag, Italy.	September 2016

## **HUMANITIES AND MANAGEMENT DEPARTMENT**

### **Department overview:**

The Humanities and Management Department established in 1973, offers credit courses in Presentation and Communication Skills for all the UG programmes at the second and third year level; Economics at the second year UG; Communication Skills for all the first year Diploma students, and courses on Entrepreneurship Development and Industrial Development and Management for final year diploma students. Through innovative teaching and relevant assignments, the faculty strives to bring about the overall development of communicative abilities of the engineering students. The teaching-learning environment in the department has particularly focused on the holistic development of students through exposure to good speeches and literary material, biographies and technical writing.

The digital language laboratory of the Institute is managed by the department. The students are trained in English through two language learning packages installed in the laboratory; where the focus is on allowing the learner acquire language skills at their level and pace. The department has also been involved with various Institute level activities.

### **Current faculty list:**

<b>Name</b>	<b>Designation</b>	<b>Highest qualification</b>	<b>Date of joining the present post</b>
<b>Permanent</b>			
Prof. Usha Nair	Head of the Department	M.A. M.Phil.	October 12, 1987
Prof. Rosali Thomas	Lecturer	M.A.	March 21, 1985
Prof. Kishor Borase	Assistant Professor	MA, UGC NET, SET	July 11, 2016
<b>Contractual</b>			
Vandana Mishra	Lecturer	M.A.	July 1,2016
Vineeth Radhakrishnan	Assistant Professor	M.A.	July 1,2016
Nilima Choudhary	Assistant Professor	M.A.(Hons & Res)	July 1,2016
Pooja Molankar	Assistant Professor	M.A.	January1, 2017.

### **Infrastructure available:**

<b>Laboratory</b>	<b>Year of up gradation</b>	<b>Sponsor</b>
Language Lab	2014	TEQIP

### **Main achievements of the Department from June 2016 to July 2017:**

#### **Training programmes/Seminars/Conferences attended**

<b>Faculty staff involved</b>	<b>Title of the training programme</b>	<b>Name of organisation</b>
Usha Nair	Management Capacity Enhancement Programme 2-8 February 2016	IIM, Indore

#### **Training Programme Conducted**

<b>Faculty involved</b>	<b>Title</b>	<b>Dates and Place</b>
Usha Nair	Technical Writing	9 January 2017, KJ Somaiya College of Engineering. For faculty of Mumbai University attending orientation for new syllabus
	Expert for the Advisory Panel Meeting.	8 July 2017 Vidyalankar Institute of Technology

**Seminars/Conference/Workshop Organized /activities co-coordinated**

<b>Faculty</b>	<b>Activity</b>	<b>Date</b>
Prof. Usha Nair	Guest Talk on 1. Gender Sensitization Speaker- Gaynor Pias 2. Assertive behavior Speaker- Dr Ambharish Bhatt	September 1, 2016  October 2016
Prof. Usha Nair	1..Secretary, Internal Complaints' Committee 2. Faculty Co-ordinate of counseling activities on campus. 3. Faculty co-ordinator of VJTI Social group.	
Prof. Rosali Thomas	.IAEC convener 2. Editor of Nirmaan (College Magazine) 3. Departmental coordinator for Diploma Syllabus Revision 4. Member of Diploma Admission Cell 5. Anchor for Programmes in the institute. 6. Printing Officer for Examination Question Papers	

**Training programmes/Seminars/Conferences attended**

<b>Faculty staff involved</b>	<b>Title of the training programme</b>	<b>Name of organisation</b>
Usha Nair	Management Capacity Enhancement Programme 2-8 February 2016	IIM, Indore
Mrs. Rosali Thomas(2016 June - 2017July )	<ol style="list-style-type: none"> <li>One Week CEP Course on Innovation Entrepreneurship and Incubators under from 14/3/2017- 18/3/2017</li> <li>International Conference on Cognitive Approaches to Language and Literature, 3<sup>rd</sup> &amp; 4<sup>th</sup> March, 2017</li> <li>UGC National Seminar on Human Rights and the Humanities 6<sup>th</sup> &amp; 7<sup>th</sup> December 2016</li> <li>International Conference on Literature, Culture and World Peace, 23<sup>rd</sup> &amp; 24<sup>th</sup> September 2016</li> </ol>	IIT Mumbai( Organised by SPFU Maharashtra under TEQIP-II)  Bharathiar University, Coimbatore  University of Calicut  Higher Education and research Society. Dnyansagar Inst ,Pune
Prof. R. Thomas(2016 June - 2017July )	Chaired Paper Presentation Session at the international Conference on Literature , Culture and world Peace, Organised By Higher education and Research society, Maharashtra on 23 <sup>rd</sup> & 24 <sup>th</sup> September 2016	

## **MATHEMATICS DEPARTMENT**

### **Department overview:**

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 five 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 syllabi revised and modified from time to time to cater to the needs of industry. The diploma curriculum of the Institute has been autonomous right from the inception because of which frequent updates and improvement has been possible.

### **2. Faculty List :**

<b>Faculty List- Regular</b>		
Prof. B. G. Bilapatte	Associate Professor & Head	M.Sc. M.phil.
Prof. Ms. N.R. Deshmukh	Lecturer (Selection Grade)	M.Sc.
Prof. Ms. S. S. Patange	Lecturer (Selection Grade)	M.Sc. M.phil.
<b>Faculty List- Contractual</b>		
Dr.Divyesh Patel	Assistant Professor	M.Sc.Ph.D
Prof. Mr. Somnath Pawar	Assistant Professor	M.Sc.
Prof. Ms. Neethu P	Assistant Professor	M.Sc.
Prof. Ms. Sarita surve	Assistant Professor	M.Sc.
Prof. Ms. Swati kadam	Lecturer	M.Sc.
Prof. Mr.Ganesh Sanap	Lecturer	M.Sc.
Prof. Ms. Smita Jadhav	Lecturer	M.Sc.

### **3. Other activities of staff-members at Institute level or outside institute:**

#### **Prof. Mr. B. G. Bilapatte:**

- i) Takes care of all administrative work of the Mathematics Department.
- ii) Departmental coordinator: Degree Examination, Degree time-table, NBA.
- iii) Nomination as Member of Adhoc board of studies in Mathematics ( B.Sc & M.Sc) of Sandip University, Mahiravani , Trimbak Road , Nashik .
- iv) Expert for CAS Interviews in MGM'S College of Engineering and Technology , Kamothe, Navi-Mumbai.
- v) *Life member of ISTE .*

#### **Prof. Ms. N. R. Deshmukh**

- i) Member of internal Academic and examination committee.
- ii) First Year Diploma Time Table Convener
- iii) Departmental coordinator: Diploma time-table.
- iv) First Year Diploma Examination Coordinator
- v) Departmental Coordinator of R-17 syllabus revision committee

#### **Prof. Ms S. S. Patange :**

- i) Member of internal complain committee ,VJTI (Women Development Cell )
- ii) NBA Co-ordinator for first year Diploma .

## **PHYSICS DEPARTMENT**

### Department Overview

The department of Physics imparts basic training in physics to the diploma and degree students. The department conducts physics lectures and practical for the first year degree and diploma students. The laboratories are equipped with He-Ne laser systems, optical communication kits and ultrasonic flaw detectors, ultrasonic interferometers and so on.

### 2. Faculty List- Regular (with designation) & Contractual-(June 2016 to June 2017)

1. Dr. D. S. Wavhal, Regular, (Professor - Degree) In-charge, Physics Department
2. Prof. T. B. More, Regular, ( Assistant Professor – Degree )
3. Dr. P. V. Naik, Regular, Lecturer (Diploma)
4. Prof. C. Ramkrishnan, Regular, Lecturer (Diploma)
5. Prof. K.N.Satish, Regular, Lecturer (Diploma)—Retired Jan.2017
6. Prof. D. M. Chaudhari, Contractual (From Dec.2016 ), Assistant Professor (Degree)
7. Prof. M. Merchant, Contractual (From June 2016 to November 2016), Assistant Professor (Degree)
8. Prof. V. Patil, Contractual (From Dec. 2015 to May 2017), Assistant Professor (Degree)
9. Prof. S. Shinde, Contractual (From Dec.2016 to May 2017 ), Assistant Professor (Degree)

### 3. Achievements

Faculty involved	Achievement	Dates
Prof. K. N. Satish	Worked as resource person in physics for army officers training conducted jointly by VJTI and Indian Oil Corporation.	Oct. 2016

### Staff Activities

Name of Staff member	Activity	Month / Year
Dr. P. V. Naik	Worked as member of “Internal Academic & Examination Committee” (IAEC)	July 2016 onwards
Dr. P. V. Naik	Worked on Annual Report preparation committee	July 2016
Dr. P. V. Naik	Worked as Printing Officer for IST 1 and IST 2 of Sem-III	Aug. & Oct. 2016
Dr. P. V. Naik	Worked as Printing Officer for ESE , Sem. – III	November 2016
Dr. P. V. Naik	Worked as Printing Officer for Re-exam. Sem I	Dec. 16/Jan.2017
Dr. P. V. Naik	Worked as Senior Supervisor for IST 1 & IST 2, of Sem. -1	Jan. & Mar. 2017
Dr. P. V. Naik	Worked as Senior Supervisor for ESE Sem - II	Apr/May 2017
Dr. P. V. Naik	Worked as departmental co-ordinator of syllabus revision committee (R-2017)	Oct. /Nov.2017
Dr. P. V. Naik	Worked as Diploma –NBA co-ordinator for Institute level information and First year information of diploma courses	June 2016 onwards

Dr. P. V. Naik	Worked as Incharge-Diploma Admissions 2017-18	May 2017
Prof. C. Ramkrishnan	Worked in Diploma convocation committee	Feb. 2017
Prof. C. Ramkrishnan	Worked for preparing Physics dept. budget	July 2016
Prof. C. Ramkrishnan	Worked in admission cell-Diploma admission	June-July-2017
Prof. C. Ramkrishnan	Worked in syllabus revision for Diploma(R-2017)	April/May2017
Prof. T. B. More	Worked as First Year B.Tech. co-ordinator	July 2016 onwards
Prof. T. B. More	Conducted all First Year B.Tech. ( degree) Exams (IST, Make-up IST, ESE, Summer Term )	July 2016 onwards
Prof. T. B. More	Worked as Convener First Year (Degree) Dept. Academic Committee	2016
Prof. T. B. More	Worked as a member of Anti- Ragging committee	2016-2017
Prof. T. B. More	Worked as First Year Admission Incharge(Degree)	May 2017

### Laboratory Development Activities

#### New Apparatus received in Physics Laboratory

Sr. No.	Apparatus	Date	Cost
1	'PSAW' Biprism Assembly with optical bench.....4 Nos.	December 2016	Rs. 78,462/-
2	'PSAW' Polarimeter.....1 NO.	December 2016	
3	Sonometer with weights .... 4 Nos.	December 2016	
4	Travelling microscope..... 2 No.	January 2017	

#### Research papers

Dr. P. V. Naik	Meghnad Saha and his contributions, current science, Vol.III, No.1, 10 July 2016
Dr. P. V. Naik	Meghnad Saha: An active social thinker, Scholar's World, vol.IV, issue IV, October 2016
Dr. P.V. Naik	Meghnad Saha : A physicist parliamentarian, International journal of Current Research, volume 8, issue II, November 2016
Dr. P.V. Naik	Revamping of Technical Education in India, International Journal of Engineering technology, Management and Applied Sciences, volume 5, issue 7, July 2017
Dr. P. V. Naik	Need of Centralized Data Analysis and Research on Technical Education in India, International Journal of current Advanced Research, Volume 6, issue 7, July 2017

## TRAINING AND PLACEMENT

VJTI Mumbai has been most preferred academic institute of Maharashtra, to a large number of organisations for recruiting outstanding employees with immense future leaders. The rigorous and flexible academic curriculum, exposure to industry and research projects by institute has heightened and strengthened their all-round development. Maintaining a great legacy, VJTI continued to nurture the students for the strong academic performance through theoretical concepts, practical understanding and peer learning, thereby creating future leaders of society. The presence of vigorous institute-industry collaborations, international exchange programs and industrial training opportunities help students to excel and be ahead in competitive environment. We highly value our partnership with recruiters, alumni and friends of VJTI and remain committed to making your recruiting experience productive and positive.

### Placement Report for B.TECH Year 2016-2017

Sr.no	BRANCH	Enrolled to TPO	Eligible	Not Eligible	Eligible Selected	Not Eligible Selected	% Eligible to Placed	% Not Eligible to Placed	% Enrolled to Selected
1	B.Tech Civil	70	55	15	33	2	60.00	13.33	50.00
2	B.TECH COMP	72	65	7	65	1	100.00	14.28	91.66
3	B.TECH Elect	71	64	7	63	0	98.43	0	88.73
4	B.TECH EX	74	62	12	54	0	87.09	0	72.97
5	B.Tech Extc	73	64	9	61	5	95.31	55.55	90.41
6	B.Tech IT	71	67	4	66	0	98.50	0	92.95
7	B.TECH Mech	73	65	8	60	4	92.30	50.00	87.67
8	B.TECH Prod	75	63	12	54	4	85.71	33.33	77.33
9	B.Tech Text	69	39	30	19	0	48.71	0	27.53

### Placement Report for M.TECH. & MCA Year 2016-2017

Sr. No.	BRANCH	Enrolled to TPO	Eligible	Not Eligible	Eligible Selected	Not Eligible Selected
1	M.TECH AUTO	23	21	2	0	0
2	M.TECH CAD/CAM	17	16	1	3	0
3	M.TECH Comp	25	25	0	11	0
4	M.TECH CONST	18	16	2	0	0
5	M.TECH Control	21	19	2	1	0
6	M.TECH ENVIRON	9	8	1	1	0

7	M.TECH EX	22	19	3	4	0
8	M.TECH EXTC	25	25	0	7	0
9	M.TECH M/D	20	19	1	6	0
10	M.TECH POWER	14	12	2	1	0
11	M.TECH PROD	18	18	0	5	0
12	M.TECH STRUCT	15	15	0	2	0
13	M.Tech Thermal	22	22	0	7	0
14	M.TECH. PROJECT MGMT	36	36	0	8	0
15	M.TECH.N.I.M.S.	18	18	0	9	0
16	M.TECH-SOFTWARE ENGG	23	23	0	10	0
17	M.TEXT	4	4	0	1	0
18	MCA	50	38	12	23	2



## RESULTS

### DIPLOMA RESULTS MAY 2017

Semester / Course	No. of Students Appeared	First Class	Second Class	Pass Class	ATKT	Fail	Percentage of Passing
II DME	64	45	02	--	13	04	93.75%
II DEE	61	54	--	--	05	02	96.72%
II DEInE	61	53	--	--	03	05	91.80%
II DCE	64	54	--	--	06	04	93.75%
II DTM	47	17	04	--	18	08	82.97%
II DTC	23	14	02	--	01	06	73.91%
II PGFDC	--	--	--	--	--	--	

Semester / Course	No. of Students Appeared	First Class	Second Class	Pass Class	ATKT	Fail	Percentage of Passing
IV DME	72	29	--	--	35	08	88.88%
IV DEE	71	49	02	--	12	08	88.73%
IV DEInE	72	42	01	--	16	13	81.94%
IV DCE	72	52	08	--	8	04	94.44%
IV DTM	63	09	02	--	26	26	58.73%
IV DTC	25	08	01	--	06	10	60%

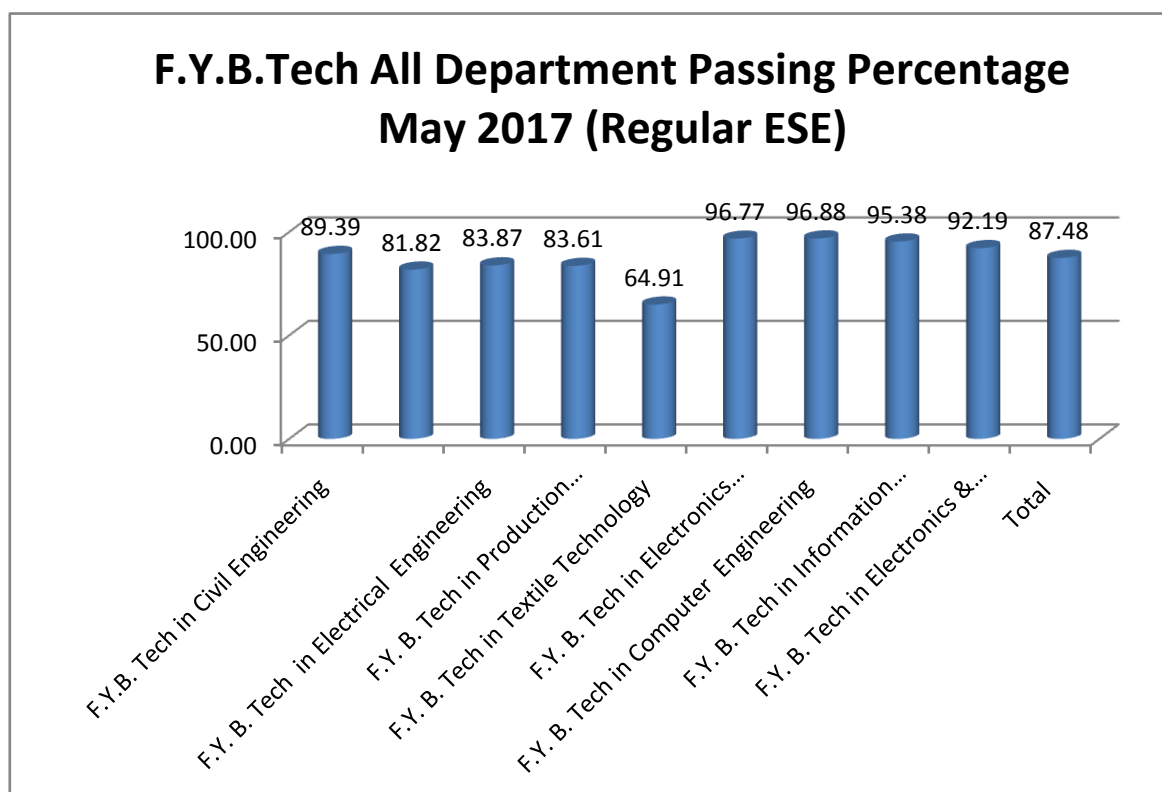
Semester / Course	No. of Students Appeared	Distinction	First Class	Second Class	Pass Class	ATKT	Fail	Percentage of Passing
VI DME	73	44	16	02	--	--	11	84.93%
VI DEE	70	59	07	--	--	--	04	94.29%
VI D.EIn.E.	75	71	03	--	--	--	01	98.67%
VI DCE	70	50	09	04	--	--	07	90.00%
VI DTM	49	13	19	06	--	--	11	77.55%
VI DTC	42	08	22	04	--	--	08	80.95%
IV PG-FDC	15	03	10	02	--	--	--	100%

**Distinction are awarded only for Final Year Students**

**Examination Section (Degree)**  
**Undergraduate Examination (B.Tech)**

**F.Y.B.Tech Result of May 2017**

Sr.No	PROGRAM	Students Appeared	Students Passed	Students Failed	Percentage Passing
1	F.Y.B. Tech in Civil Engineering	66	59	7	89.39
2	F.Y. B. Tech in Mechanical Engineering	66	54	12	81.82
3	F.Y. B. Tech in Electrical Engineering	62	52	10	83.87
4	F.Y. B. Tech in Production Engineering	61	51	10	83.61
5	F.Y. B. Tech in Textile Technology	57	37	20	64.91
6	F.Y. B. Tech in Electronics Engineering	62	60	2	96.77
7	F.Y. B. Tech in Computer Engineering	64	62	2	96.88
8	F.Y. B. Tech in Information Technology	65	62	3	95.38
9	F.Y. B. Tech in Electronics & Telecommunication	64	59	5	92.19
	<b>Total</b>	<b>567</b>	<b>496</b>	<b>71</b>	<b>87.47</b>



# VJTI ALUMNI ASSOCIATION

## REPORT OF THE MANAGING COMMITTEE FOR THE YEAR 2016 – 2017

Director of VJTI, Chairman of VJTI Alumni Association, Managing Committee Members and Life members, teaching and non-teaching staff of VJTI: I now present to you the Managing Committee Report for the F.Y.2016-17.

### 1. Managing Committee Meetings:

During the year, the Managing Committee held 16 meetings, with good attendance. Minutes of all meetings have been recorded in the Minute Book.

### 2. Life Membership Details :

Total Life Members as on 31<sup>st</sup> March, 2017 stood at 2283. We added 168 new Life Members during the financial year 2016-17. Since 2009, we have been working with various departments of our Institute to enroll passing out students as Associate Student Members of our Alumni Association. As a result, a total of about 6000 students, who had passed out of the institute from 2009 till 2016, had enrolled as Associate Student Members of VJTI AA by giving consent to convert their caution money deposit with the Institute as initial payment towards Life Membership.

Here, I would like to appreciate the efforts put in by all the staff of various departments, especially the Heads of Departments in coordinating this activity with the staff of Alumni Association. A total of 1019 students who have passed out in 2017 have also enrolled under this scheme, taking the cumulative total Associate Student Membership close to 7000. From this year, we are requesting current students of VJTI to also become Life Members. The response for the same is encouraging and we hope to garner more such members in the coming years.

### 3. Major Events Sponsored by Alumni Association:

#### a. Annual Alumni Reunion:

This is the flagship event of our Association. The Annual Alumni re-union was held on 18th December, 2016. Mr. Ajit Gulabchand, Chairman & Managing Director of Hindustan Construction Company Ltd. was the Chief Guest for the evening. Mrs. Sandra Shroff, Vice Chairman and Managing Director of UPL and Chairperson of Board of Governors of VJTI, was the Guest of Honour. The address by the Chief Guest was very insightful and was well received by the audience present. Mrs. Sandra Shroff spoke about the future road map of VJTI for the next decade and the implementation plan to achieve the same. On that occasion, Mr. Satish Kazi, one of the past Chairmen of VJTI Alumni Association was conferred with Lifetime achievement award. Our association proposes to continue this practice of identifying and felicitating eminent Alumni in the years to come. The event concluded with a grand musical entertainment program. Our annual Souvenir **VaiJayanTI 2016** was released by the Chief Guest. The entire event was streamed live on the Facebook page of VJTI Alumni Association and was viewed by more than 700 Alumni across the globe and we received close to 600 Likes on Facebook page. This year the Annual Alumni Reunion will be held on 17<sup>th</sup> December 2017.

#### b. Up gradation and Renovation of various infrastructural facilities.

##### Projects completed during the year:

##### 1. Class Rooms in Mechanical Department.

Alumni Association with the active support of Alumni of the Degree Mechanical Batch of 1990 completed the renovation of 2 classrooms in the Mechanical Department at an estimated cost of about Rs. 14 lacs. I would like to appreciate the contribution made by

Mr. Vijay Joshi – a donation of Rs.7.5 lacs was received from the company promoted by him. The said classrooms were inaugurated by Dr.S.Krishnamoorthy, Former HOD of Mechanical Engineering Department on December 2, 2016.

## **2. Class Room in Electrical Department.**

Alumni Association undertook the complete renovation of a classroom in the Electrical Engineering Department at an estimated cost of about Rs. 7 lacs. This renovation was possible through a generous contribution of Rs. 4 lacs from our Past Chairman Mr. Satish Kazi and his family members. The said classroom was inaugurated by Mrs. Sandra Shroff, Chairperson of Board of Governors of VJTI on December 18, 2016.

### **Ongoing Projects:**

#### **1. Renovation of 2 classrooms as well as renovation of Ladies and Gents Toilet in Mechanical Department :**

The above projects are being implemented with the lead support of Mechanical Batch of 1992. Total fund collection from the batch is to the tune of about Rs.34 lacs.

#### **2. Renovation of 2 classrooms in Production Department :**

The above projects are being implemented with the lead support of Production Batch of 1976. Total fund collection from the batch is to the tune of about Rs.12 lacs.

#### **3. Creation of IOT laboratory in the Electrical Department :**

The above facility is being created with the lead support of Electrical Batch of 1989. The Total fund collection from the batch is to the tune of about Rs.46 lacs.

#### **4. Renovation of Applied Mechanics Laboratory in the Structural Department:**

The above project is being implemented with the lead support of Civil Batch of 1981. Total fund collection from the batch is to the tune of about Rs.9 lacs.

#### **5. Renovation of classroom in Computer Department :**

The above project is being implemented with the lead support of Computer Batch of 1992. Total fund collection from the batch is to the tune of about Rs.9 lacs.

A few of the abovementioned projects have been completed / are on the verge of completion. These have been made possible through the efforts of Mr. Umesh Doshi and Dr. Dilip Sarode who have coordinated closely with contractor, architect and the college authorities to complete the projects well before the dead-lines.

### **c. Master Plan of VJTI:**

A Master Plan is being envisaged for VJTI which would include conceptual designs and development plan over the next 40-50 years at VJTI. The lead for the same has been taken up by VJTI Alumni Association. The work has been entrusted to an agency by name “Mobile Offices” and it shall submit a detailed plan along with report in the next 2-3 months. This would enable the institute to have an integrated future growth with optimal utilization of existing resources.

### **d. Scholarship for Mechanical Degree Students:**

Alumni Association awarded Scholarship to 4 degree students of Mechanical department, one each from First Year, Second Year, Third Year and Final Year. Each student was awarded cash Scholarship equivalent to the tuition fees of the respective students. The total amount of scholarship amounted to about Rs. 2, 00,000/- . This annual scholarship has been initiated by Mr. Muralidharan Natarajan, an Alumnus of 1977 B. E. Mechanical Batch, in fond memory of his parents.

### **e. Financial Assistance to Needy Students:**

Providing financial assistance to needy students has now become a regular activity. The applications were thoroughly scrutinized by a committee comprising of Mr. Umesh Kumar Gupta, Mr. Vinay Kale, Mr. Milind Barve and Mr. Sanjeev Dandekar. Subsequently, Alumni Association awarded a total sum of Rs. 3,65,000 by way of

Financial Assistance to 26 students from various streams of degree and diploma to meet their tuition fees and lodging and boarding expenses in Hostels.

**f. Swachh Bharat Abhiyan:**

The Alumni Association along with VJTI Social Group hosted a cleanliness drive "Get Set Clean" at Dadar Chowpatty on October 2, 2016. Following the footsteps of our PM Mr.Narendra Modi, a team of about 60 students from VJTI took it upon themselves to clean up the city. The students worked from 8 am till 12 noon and overall the event was a huge success. VJTI students believe that "A cleaner India is a better India". It was a pleasure for me to witness this in person and the enthusiasm shown by the younger generation in being socially responsible is commendable.

**g. VJTI Alumni Sports day:**

During the last few years, Alumni Association in association with Enthusia, the Sports Committee of VJTI students. Has been organizing Alumni Sports Day one day prior to the Alumni Reunion. This year also the same was held on December 17, 2016. Alumni from across the years (including a few faculty Members) along with the current students participated in games like Cricket, Table Tennis, Badminton, Carrom, Chess and Basketball. All the events received excellent response and it was a day filled with fun for the Alumni and students alike. The winners of the various sports events were felicitated with medals. This year the "Alumni Sports Day" would be held on December 16, 2017.

**h. Startup Networking Conference:**

Startups being the order of the day, Alumni Association teamed up with E-Cell to organize **SNC – Startup Networking Conference** on December 15 and 16, 2016, a two day event where various startups shared their experiences. As a precursor to this event, a startup weekend seminar was conducted at VJTI on September 17 and 18, 2016. The main aim of Startup weekend is to foster and create an entrepreneurship ecosystem at VJTI. The weekender included various seminars, events and workshops.

**4. FCRA Donations:**

You are all aware that VJTI Alumni Association has the approval from FCRA, whereby we can accept donations in foreign currency. During the year under review, the association received a total amount of about Rs. 15.5 lacs by way of generous contributions from overseas Alumni of VJTI.

I would like to inform you that the Association is complying with all the stringent legal formalities as stipulated by FCRA and I appeal to all Alumni living overseas to contribute generously in the coming years.

**5. VJTI – Alumni Affairs International (VJTI – AAI)**

VJTI Alumni Association has initiated the process for setting up a separate entity named VJTI Alumni Affairs International (VJTI – AAI) as a non-profit 501c3 organization under the laws of USA. With the active support of Mr.Venki Ramachandran, an Alumnus of Mechanical Batch of 1990 and a few other alumni located in USA, the process of incorporating VJTIAAI has gained steam. The following activities have been completed so far:

1. Formed as a California Non-Profit Entity with Entity ID: C3963610.
2. Have obtained US Federal Employer Identification Number (EIN): 81-4268686
3. Web Site domain registered: [www.vjtiaai.com](http://www.vjtiaai.com)
4. By-laws and articles of incorporation are being finalized as we speak.
5. Next Steps are to use the above documents to open a bank account and get the website going so that we can start collecting donations from our overseas alumni.

We are also actively working on getting the necessary certification for classifying this entity as Non-Profit organization and subsequently we shall be granted a Tax- exemption

status. This would enable overseas donors to get Tax deduction on their donations. Please stay tuned for more information around this exciting venture.

**6. Revamped website of VJTI Alumni Association:**

A completely revamped website has been launched by VJTI Alumni Association. The same has been outsourced to an agency by name Univibe Networks. The response for the new website has been encouraging. More than 8000 Alumni cum students are registered on the website and the number of page views has been steadily increasing. During the year, about 4-5 webinars in areas of current interest were conducted and the response was very good. Incidentally, even today a webinar titled “Achieving Career Success in Turbulent times” was conducted.

In addition, about 7-8 prominent Alumni (like Mr. Amit Chandra, Dr. V.N. Gupchup to name a few) and a few Professors at VJTI (like Dr. Rohin Daruwalla) have been interviewed. The same have been posted on our website as well as Facebook page of VJTI Alumni Association. Likes have been constantly increasing. A mobile application has also been launched which has good features like Chats, Messages, Mentorship, Job posting etc. Networking amongst Alumni has increased substantially and in the near future additional content would be added to enable students as well as Alumni to continuously LEARN new aspects.

On behalf of all the Managing Committee members, I sincerely thank everyone for having given me this opportunity to present this report.

Mr. B.R. Kalyanaraman (B. E. Mechanical – 1984) is at present the Honorary Secretary of VJTI Alumni Association

## **INTERNAL COMPLAINTS COMMITTEE**

### **Internal Complaints Committee**

The Internal complaints committee has been set up as per the Sexual Harassment Act 2013. Besides promptly addressing and giving redressal to the complaints, Committee also took initiative to organize gender awareness and sensitisation programmes for the students.

Awareness pledge of the Sexual harassment Act 2013 was taken from all the newly joined students, thus ensuring that students became aware of the issue and the mechanism for getting their complaints heard. The constitution of the Committee is as follows:

Sr No	Name	Designation	Department
1	Dr.Prof. M. S. Panse	Presiding Officer	Electrical Engg. Dept
2.	Prof Usha Nair	Secretary	H & M Dept
3	Prof. S. S. Patange	Member	Mathematics Dept
4	Prof S.H. Kulkarni	Member	Mechanical Engg. Dept
5	Prof S. V. Diwan	Member	Mechanical Engg. Dept
6	Dr.Prof. V.D. Gotmare	Member	Textile Engg. Dept
7	Prof.S.S.Suratkar	Member	Computer Engg. Dept
8.	Ms. N.P. Patange	Member	Establishment section
9	Ms. Urmila Salunke	NGO Member	Akshara( Govt recognised NGO)

## **Dr. BABASAHEB AMBEDKAR LIBRARY, VJTI**

As is typical for the Library, the year was dominated by a focus on the future development, while ensuring that current faculty, students, and staff has access to the highest quality resources and services to support their research, teaching, and study.

A twelve-month major space planning project is initiated in May 2017, focusing on splendid restoration and renovation of the Library.

### **Collection Development (Discipline and Format Wise Collection)**

<b>Discipline</b>	<b>Books : Electronic</b>	<b>Books : Print</b>	<b>Journals : Electronic : Internatio nal</b>	<b>Journals : Print : National</b>	<b>M. Tech Project CD's</b>	<b>Phd Thesis</b>	<b>Grand Total</b>
Civil & Environmental	166	52	74	13	---	2	305
Computers & IT	35	69	239	6	---	1	350
Electrical & Electronics	173	301	248	11	45	5	781
Humanities & Management	---	10	---	---	---	---	10
Mechanical	79	67	145	5	11	4	309
Production	123	79	18	8		1	229
Structural	1	20	12		9	3	42
Textiles	---	134	1	10	---	---	145
Physics	---	15	104	1	---	---	120
Chemistry	42	9	136	7	---	---	194
Mathematics	10	78	162	2	---	---	252
General	---	14	---	3	---	---	17
Inter / Multidisciplinar y	19	---	29	---	---	---	48
<b>Grand Total</b>	<b>648</b>	<b>848</b>	<b>1168</b>	<b>66</b>	<b>65</b>	<b>16</b>	<b>2802</b>



## **SUPPORTING MANPOWER**

<b>Sr. no.</b>	<b>Name</b>	<b>Designation</b>
1	Shri V.P. Phanse	
2	Milind B. Dhage	Assistant librarian
3	D.B. Jadhav	Plumber
4	V.V. Bhise	Hamal
5	Shri Nilesh Parwade	Hamal
6	Sakshi L. Dhuri	Clerk / Typist
7	Vighnesh S. Ghadigaonkar	Hamal
8	Prathamesh P. Dalvi	Clerk / Typist
9	Rohit V. Tandlekar	Hamal
10	Shri Gaurav S. Satam	Clerk / Typist
11	Shri Vishal Tambe	Hamal
12	Sumit G. Sawant	Technical assistant
13	Mahendra T. Kamble	Hamal
14	R. A. Chile	Hamal
15	Mangesh B. Chalke	Hamal
16	Vikram A. Jadhav	Hamal
17	Shyam B.	Hamal
18	Bhavna R. Wagh	Clerk / Typist
19	Jyoti R. Deshmukh	Clerk / Typist
20	Govind K Gawade	Hamal
21	Sanjay Shelar	Clerk
22	Ms. Prachita V. Jadhav	Hamal
23	Vilas V. Shetye	Hamal
24	D.D. Khaire	Hamal
25	Lalit G. Satam	Hamal
26	Prasad P. Tanawade	Hamal
27	Vinay V. Walmiki	Hamal
28	Arun A. Gurav	Hamal
29	Yogesh Tambe	Computer assistant
30	Deepak Gosavi	Hamal
31	Swati L. Jadhav	Hamal
32	S. S. Birwatkar	Hamal
33	C.B. Gare	Hamal
34	Yashwant L. Kudalkar	Clerk / Typist
35	Amit R. Rane	Hamal
36	Tanvi T. Ghadigaonkar	Clerk
37	Sakshi C. Jadhav	Clerk
38	Veerndra R. Kondgekar	Technical assistant
39	Dipika D. Budar	Hamal

40	Riya Y. Dholam	Clerk
41	Amit J. Karande	Library assistant
42	Vidya R. Nagrale	Hamal
43	Mohammed Javed Akbar Sayyed	Hamal
44	Praful S. Khapne	Hamal
45	Vinod R. Chavan	Hamal
46	Aniket A. Jadyar	Hamal
47	Umakant S. Tandel	Hamal
48	M. Y. Karambele	Hamal
49	Vinayak P. Kesarkar	Hamal
50	Mayuresh D. Bhogale	Hamal
51	Smt. Vaidehi Ruke	Clerk / Typist
52	Pratik S. Ghorpade	Hamal
53	A. G. Bhoj	Hamal
54	A. B. Kolekar	Hamal
55	Bharti M. Naik	Hamal
56	Shri Sai A. Padala	System analyst
57	Shri Aditya P. Gawde	Technical assistant
58	Ms. Supriya Lahuba Chavan	Technical assistant
59	Ms. Sonali Vijay Chavan	Sr. Technical assistant
60	Shri Suhas Parab	Exam assistant (01)
61	Shri Ravindra Kudalkar	Exam assistant (01)
62	Shri Rahul L. Mayaral	Carpenter
63	Shri P. S. Matondkar	
64	Ms. Sneha R. Patkar	Jr. Engineer
65	Shri Vaibhav S Tawade	Jr. Engineer
66	Shri Prashant S. Mohite	Electrician
67	Avinash B. Ballal	Carpenter assistant
68	Manasi Sawardekar	Sr. Technical assistant
69	Ms. Darshana Shinde	Office assistant
70	Shri. Swapnil S. Kharmale	Sr. Engineer
71	Shri Adnan A Mulla	Jr. Engineer
72	Shri Pranit H. Churi	Technical assistant
73	Ms. Shilpa S. Motghare	System analyst
74	Shri Suhas R. Rathod	Plumber
75	Shri Mangesh B. Ghone	Electrician
76	Amitkumar R. Yadav	Assistant electrician
77	Gosuddin Siddiqi	JRF
78	Deepak Sanghavi	JRF

# STUDENTS' ACTIVITIES

## TECHNOVANZA 2016-17

As the techno-management festival of VJTI, Technovanza has evolved into a significant embodiment that reveals to the world and students alike, the infinite opportunities in science and management. It is a three-day festival dedicated to giving a stellar experience in the field of techno-management. Offering a plethora of programs, ranging from events, workshops, exhibitions, guest lectures, Technovanza strives for one and all to get inspired and look up to. Contributing to the society and bringing up viable solutions has remained the main idea of Technovanza which is justified by its tagline '*Taking Technology to Society*'.

### TRANSFORMING INDIA

Technovanza'16 was hosted with the theme of "Transforming India" as a support to the Prime Minister's initiative. Technovanza'16 received patronages from *Make in India*, *Skill India*, *Digital India* and *YourStory*, amongst various other achievements. For the promotion of startups, Innovation Spotlight-Startup and Internship Expo was organized which received recognition from NASSCOM-10000 Startups.

Technovanza also conducted social drives to promote innovation and technology among school students. One major event was a visit to the Nehru Science Centre organized for the students of Pali Chimbai School, Bandra.

#### EVENTS

#### MEGA ATTRACTIONS:

##### ROBOWARS

The star attraction was garnered by this event during Technovanza, 2015. Robowars increased its reach of participants and its size gaining national recognition. With the arena being made out of thick polycarbonate sheets, the event was also appreciated for its safety measures internationally.

##### VJTI ROBOTICS CHALLENGE

With the theme of 'Tribute to Indian Military', the participants had to build two bots- manual and automatic and finish the required tasks mentioned in the game play. The team which finished the task with the maximum points was allowed to proceed to the next level.

##### RCMO

With a minimum of half a dozen national records breaking each year at the competition, Rubik's Cube Mumbai Open is Technovanza's flagship event from the last 6 years after following tremendous success in its previous years and it just gets bigger and better every time. RCMO has been the major attraction with a large footfall and is undoubtedly one of the biggest hits of Technovanza every year. In 2016, **national records** were broken in VJTI in the 4\*4, 7\*7, and 4 other categories.

##### FAST AND FURIOUS

The IC Engine race is a competition where your car designing abilities are tested along with its strength, efficiency and power. The most thrilling and breathtaking event attracts spectators and participants from all over the country.

##### HACKATHON

For the first time in the history of VJTI, Technovanza hosted a **24-hour Hackathon**, in association with M-Indicator, which had the theme of 'Transforming India'. With a goal to achieve positive change and develop a new generation of programmers, the hackathon provided innovative solutions to the challenges faced by many in India.

## COLLEGE CUP

Introduced only two years back, the College Cup was a huge success encouraging students across the nation to apply as College Ambassadors. It included all the events and exhibits during the three days. Sinhad Institute, Pune with the maximum points was the winner for College Cup.

## HOUSE CUP

The crowd from within the college is as important as from outside the college. To facilitate participation of VJTI students, Technovanza organizes the House Cup event, wherein the 12 branches in VJTI are divided into 3 houses as follows:

Red Phoenix: IT, Mechanical, EXTC, Textile
Green Griffins: Civil, Electronics, MCA, Chemsas
Blue Dragons: Computers, Production, Electrical, M.Tech

The house cup gained a lot of success and was well appreciated among first and second years and gained wide spread participation from VJTI students itself. Red Phoenix was the winner this year.

Under House Cup, Department Heads and Coordinators were appointed to encourage participation from the respective branches.

## SCHOOL CUP

Technovanza, with the aim of 'Taking Technology to the Society', held for the first time, the School Cup event, which comprised of 3 competitions-Quiz, Sixty Seconds to Fame and Science Fair. The event was a huge success owing to the enthusiasm and creativity of the young students.

## VJTI GUEST LECTURE SERIES

### 1. Jayant Narlikar

Jayant Vishnu Narlikar is an Indian astrophysicist. Narlikar is a proponent of steady state cosmology. He developed with Sir Fred Hoyle the conformal gravity theory, commonly known as Hoyle–Narlikar theory.

### 2. Javagal Srinath

Javagal Srinath is an Indian former cricketer and current ICC Match Referee. He is considered among India's finest fast bowlers and remains the only Indian fast bowler to have taken more than 300 wickets in One Day Internationals

### 3. Bjarne Stroustrup

Bjarne Stroustrup is a Danish computer scientist, most notable for the creation and development of the widely used C++ programming language.

### 4. Suresh Prabhu

Suresh Prabhakar Prabhu is an Indian politician and the current Railway Minister of India, under the Narendra Modi government. He is a Chartered Accountant by profession and a member of the Institute of Chartered Accountants of India.

### 5. Dr. A. S. Pillai

A Sivathanu Pillai is an Indian scientist who currently serves as Honorary Distinguished Professor at Indian Space Research Organisation and a Honorary Professor at IIT Delhi.

## 6. **Balaji Vishwanathan**

Balaji Vishwanathan; is an Indian writer, author, entrepreneur and engineer who presently lives in Bengaluru. He is popularly known for his answers and posts on the question-and-answer site Quora.

## 7. **Kunal Shah**

**Kunal Shah** is an Indian entrepreneur, founder and CEO of **FreeCharge**.

## 8. **Medha Patkar**

Medha Patkar is an Indian social activist working on various crucial political and economical issues raised by Adivasis, Dalits, Farmers, labourers and Women facing injustice.

## **PANEL DISCUSSION**

### INDIAN STARTUPS: THE BIG BANG THEORY

The Panel Discussion focused on how there was a sudden explosion of startups in India, and what are the challenges currently being faced by them.

The panelists were:

- Anand Narsimhan: Senior Anchor, Times Now
- Sahil Gupta: Deputy Manager, NASSCOM
- Abhiraj Bhal: CEO, Urbanclap
- Ashish Agrawal: Associate, Sequoia Capital
- Sumit Chhazed: Founder, CREDR
- Asit Oberoi: Global President and Head, Yes Bank

## **EXHIBITIONS**

The main objective of Technovanza is to provide a platform to the students to display their skills, and gain motivation for research and innovation in various fields. The Exhibition Tent is built to achieve this objective. Some of the prominent exhibitions are:

- **Parallax VR**
- **Maker's Asylum's** Satnav System
- **BB8**: A spherical robot with free-moving domed head
- **INDRO**: Tallest humanoid made in India
- **3 Ideas**: 3D pen, 3D printer and scanner
- **Puzzlebox Orbit**: Mind controlled helicopter from USA

## **INNOVATION SPOTLIGHT**

The Innovation Spotlight is VJTI's Start-up and Internship Expo held by Technovanza for the first time.

The salient features of Innovation spotlight are:

It provided an opportunity for innovative start-ups from all over the country to market their ideas and products before thousands of potential customers and investors, and also helped the attendees to learn about the new entrepreneurial techniques that these start-ups have used.

- The startups could offer internship to interested candidates.
- A few investors visited the event and the startups convinced them to invest in their ideas.

## **WORKSHOPS**

To promote the love for technology and its advancements, Technovanza organized the following workshops for the students of VJTI:

- Ethical Hacking
- Android App Development
- Robotics and IOT

- Automobile and IC Design
- Sixth Sense Technologies
- Hydraulic Robot
- Level 1 Robot
- Rubiks Cube and Speed Cubing

## **SOCIAL INITIATIVES**

### **PRATIGYA**

With the motto of Taking Technology to Society, Technovanza has touched every part of society, including the most creative little minds, the School kids. When children are educated, they learn how to prevent illness and improve overall health, build and maintain infrastructure, manage personal and professional relationships, understand and advocate for basic rights, and secure a livelihood.

The Pratigya team at VJTI visited several schools by collaborating with different NGOs covering different aspects of technology like heat, force, light, electricity, magnetism, mathematics, acid-base, salts along with basic knowledge of first-aid, health and diseases.

The schools covered with the respective NGOs are:

1.**NGO:** Chip Mumbai

**SCHOOLS:** Sanyas Ashram School, Irla Masjid School.

2.**NGO:** Umang Foundation

**SCHOOLS:** Saraswati Hindi Vidyalaya, Navodit Vidyalaya

### **MISSION MUMBAI**

Technovanza has always worked for the betterment of the people around it which gave birth to its second social initiative, Mission Mumbai. This year, under Mission Mumbai, we targeted problems encompassing all walks of society and the environment. The drives undertaken were:

- **Station Beautification:** The students of VJTI along with the assistance of NGO Aaradhna painted a few walls at Jogeshwari Station, Mumbai.
- **Smile Mumbai:** The volunteers served refreshments to the workers and traffic police at Matunga Bridge, Wadala station and Wadala Post Office.
- **Techno Kids:** We visited the Sanyas Ashram School in Vile Parle where the students from the 5th and 6th standards were taught how to solve the Rubik's cube.
- **Nehru Planetarium:** The students of a BMC School in Mumbai were taken on a visit to the Nehru Planetarium as a part of their school picnic.

### **PAST STATISTICS**

In 2016, Technovanza hosted more than **5000 participants** and **40,000 visitors** over the 3 days of Technovanza. The crowd visiting the festival varied from school and college students to eminent personalities like Jayant Narlikar, Javagal Srinath, etc, corporate personalities from companies like *Google*, *Red Hat*, *Microsoft*, etc, entrepreneurs and national record holders. With this massive a reach and participants pouring in from all parts of India as well as a few neighboring countries like Bangladesh and UAE in addition to exhibits from USA, VJTI's Technovanza proudly achieved a place amongst the top 10 technical festivals in India. It has grown to attract almost 5000 participants, 21,000+ likes on social media and a staggering 40,000+ attendees.

Thus, true to its name, Technovanza has acted as a focal point between industrial leaders and college students to establish global leadership in the field of Technology.

### **Enthusia 2016: Unleash the BEAST Within!**

Veermata Jijabai Technological Institute (VJTI) is one of the most prestigious and dignified colleges in INDIA. It has established global leadership in the field of technology and has developed competent human resources, providing great service to the society. Apart from being a technical prowess, this institution has taken giant strides in the development of Sports around the city. The heart-throb of the college, ENTHUSIA is one of the most awaited fests across the nation experiencing a humongous footfall in excess of 15000 people.

### **ENTHUSIA 2K16: The Journey!!**

A journey that deserved all the credentials for the efforts put in by each and every Enthusiast. The year had all the sport events being conducted with full zest and the number of participants just kept increasing event by event.

The Enthusia Premier League, the Open College Chess Tournament, A week of Various Competitions for our Students, Workshops of upcoming events like Ultimate Frisbee, all of these, received huge appreciation and participation from all the college students. In addition to all this, VJTI GYMKHANA took great pride in promoting the importance of fitness and Yoga, celebrating International Yoga Day in VJTI on 21st June 2016.

### **ENTHUSIA 2K16!:: THE TRANSFORMATION!**

- 1) For the first time in the history of Enthusia, we had a Guest Lecture delivered by Mr. Shrish Nadkarni & Mr. Anil Pradhan, two of the most talented players in the sport of Badminton in India. The lecture was full of motivation and inspiration, teaching us all the principles that so often we forget in this fast moving rat raced world.
- 2) The presence of Mr. Yuvraj Walmiki on the occasion of Independence Day added a spark to the programme “Ek Shaam Azaadi ke Naam” organized by the VJTI Gymkhana. His words of wisdom, truly ignited that spirit of patriotism that is so deeply engraved in our veins.

### **ENTHUSIA 2K16: The Moments!!**

#### **▪ OPENING CEREMONY:**

The OPENING CEREMONY has always received a great response from VJTI students as ENTHUSIA promises to get bigger and better, every year. December 3<sup>rd</sup> 2016, was no different. Scintillating crowds combined with the astute management by the Enthusia committee, the opening ceremony had all the ingredients that were necessary to kick start this mega event. Every Department had their elected representatives taking up the oath of “Playing hard & Playing Fair.” **Graced by the Great Indian Para-athlete Ms. Manasi Joshi coupled with the** madness and frenzy of the Freestyle Football Competition, the first in the making made up for ONE of THE MOST MEMORABLE OPENING CEREMONY in the History of the VJTI Gymkhana.

This ceremony was followed up by a High Octane Basketball clash between the VJTI basketball team and crossroad rivals ICT . The match was an absolute classic with the hosts dominating the match in typical VJTI style, living up to all the hype, sending the crowd cheering on Aamchi AAI Tumchi AAI, Veermata Jijabai into delirium.

#### **• ENTHUSIA MARATHON: RUN FOR A CHANGE!**

The Opening Ceremony followed with the much awaited ENTHUSIA MARATHON. As the VJTI Gymkhana tradition goes on, this year too we had the “**Enthusia Marathon-Run for a Change**” on the 4<sup>th</sup> of December. The initiative was to bring about the message for a change in the approach of the society towards building a cleaner and fresher environment. Apart from it being a sporting endeavour, Marathon at ENTHUSIA 2016 was

also a noble deed, showing support and solidarity by associating with TEACHFORINDIA, the renowned NGO. Nearly 250 people participated in this Marathon helping take this initiative forward in the positive direction.

▪ **ENTHUSIA: INTER COLLEGE TOURNAMENT- “THE COLLEGE CUP!”**

Participation from colleges all over Maharashtra made the 5 day inter-collegiate event, one like never before. V.J.T.I. had tough competition from various colleges, but we managed to beat many odds reaching the business end of almost all events, having an equal share of success and lapses in the Finals. The ENTHUSIA COLLEGE CUP, the prize for which over 65 colleges battled it out, was finally won by ATHARVA COLLEGE OF ENGINEERING. The management of these events garnered respect from many institutions and motivated us to organize forth-coming events in the similar manner.

▪ **EXHIBITION MATCH: ALL STARS TAKING TO COURT!**

A High Octane Basketball clash between the players of the current VJTI Boys and Girls Basketball team and those who had represented VJTI during their time in college. The matches were an absolute classic with the pendulum swinging from one end to another, living up to all the hype created by it as an ‘ALL STARS’ match. The spectators remained enthralled throughout the match as they appreciated every move and cheered on their favorite players.

▪ **ENTHUSIA SHIELD: INTER-DEPARTMENT WARS!**

From 9<sup>th</sup> December onwards, every department put in their best efforts to come out on top in a battle for supremacy to gain the Enthusia Shield and bring glory to their department. Every event had neck-in-neck results, absolute thrillers deciding winners with the ELECTRICAL department reigning supreme finishing way ahead of their fierce competitors.

▪ **ENTHUSIA CYCLOTHON: THE ULTIMATE JOYRIDE!**

To promote a clean green environmental idea, we had the “**Enthusia Cyclothon – The Ultimate Green Ride**” on the 11<sup>th</sup> of December. This event was powered by FIREFOX and presented by BHARAT CYCLES. It was an open event for people of all age groups. All enthusiasts went around cycling through the streets of Matunga promoting this Initiative of ours, helping everyone realize the importance of cycling for both health and environment.

▪ **CLOSING CEREMONY:**

After all the High adrenaline rush, racing heartbeats, pools of sweat and matches that went down to wire, Enthusia 2016 came to an end with a Grand Finale ‘The Closing Ceremony’, on 17<sup>th</sup> December 2016, where all the Winners were rewarded for all their hard work and perseverance throughout ENTHUSIA. After a Fortnight filled with extremely hard fought battles, all the Inter-Collegiate and Intra-Collegiate Winners were awarded Medals and Trophies. The spectacle was a moment everyone will cherish forever and in this fashion came a perfect end to Mumbai’s Biggest Sports Extravaganza, ENTHUSIA’16.

## **Fine Arts**

Fine Arts is an art, craft and illustrations’ society of VJTI. This puts forth multiple opportunities for the students herein to showcase their artistic talents, covering wide areas including painting, sketching, sand art, calligraphy, graffiti, installations, illustrations and visual arts. The main goal of fine Arts stays to bridge the students and art, to uncover their skills. Fine Arts strives to inspire people to look up to the beautiful world around.

Fine Arts activities go around throughout the semester and in the month of December. This year, all the activities held under Fine Arts are enlisted besides their corresponding details.



## **Mega Events:**

### **Canteen Wall Painting-**

This one of the biggest events that happens in the college every year. This year, too, we have finished it successfully with participation of students from nearly all branches and streams of our college. The design is based on the theme- “**Dawn of Dynasties**”.

### **Matunga Station Painting-**

Recognizing the need of social awareness in the current society, this was a joint attempt of Fine Arts and Social Group. We have painted the Matunga station wall with illustrations spreading message of social upliftment and women empowerment.

## **Events in December:**

Fine Arts has helped all the other societies of VJTI for the design work. This includes:

- Token of appreciation for Mansi Joshi for **Enthusia**.
- Rangoli and decoration for **Alumni Reunion**.
- Posters, dangles, installations for **SNC- E-Cell**.
- Paintings, illustrations, scripts and cut-outs for **Rangwardhan**.
- Posters, cut-outs, installations for **Technovanza**.

## **Fine Arts Events:**

- Paintings of the Month
- Friendship Day Posters
- Photoshop Workshop
- Art Gallery
- Sketching Competition
- Tattoo Making Competition

Thus, fulfilling its purpose, Fine Arts has served to be the key center for all the creativity and representational art forms, establishing higher values for all art-related activities happening in and around the campus.

## **Rangawardhan ‘16**

Rangawardhan is a four day annual Marathi extravaganza of VJTI, Mumbai. Preserving the Marathi culture and adapting to the modernization, Rangawardhan in the past 15 years has carved a special niche for itself in everyone’s hearts. A festival awaited with much bated breath, Rangawardhan celebrated its 16<sup>th</sup> year with much pomp and show.

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## **THEME**

Rangawardhan is a festival of joy, happiness and it also gives us opportunity to maintain a social connect with our society.

The theme of this year is ‘*Sangharsh: Jidd parivartanachi*’

Our theme is all about the common people who chased their dreams, who achieved their goals with a great hard work, with a great **struggle**.

We are highlighting the incredible work of those common people who devoted their whole life for a cause, for ‘*Ek Jidd*’ and done something which was not easy, which was not ordinary.

Rangawardhan salutes the pioneers who changed the way of thinking of our society.

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## **EVENTS**

We are elated to inform you that over the years Rangawardhan is gaining greater heights. We would like to put some light on the events and highlights of Rangawardhan’16.

**Ganesh photography competition:** Ganesh photography competition was a Photography competition take on the occasion of Ganapati Festival. Participants just had to click and send the good pictures of Ganpati Idols and send to us, we published those pictures on our facebook page. The one having maximum no of likes won the competition.

### **GUEST LECTURE BY MR. AVINASH DHARMADHIKARI**

Rangawardhan had organized a guest lecture on the subject: ‘Guidance on the preparation for MPSC and UPSC exams’. We had the speaker Shri. Avinashji Dharmadhikari Sir. Huge crowd was present in the auditorium of VJTI to listen him. Sir guided us on how to prepare for such toughest exams and inspired everyone out there to dream big in their life.

**Vad-Vivad Spardha** - It is a debate competition of Rangawardhan which was held on 21<sup>st</sup> October, 2016. In vad vivad, participants participate in teams of 2 and it is very much interesting to see which team wins the debate. This year, it experienced a grand success with enthusiastic participation within our college.

### **Rangawardhan on 19<sup>th</sup>, 20<sup>th</sup> and 21<sup>st</sup> of December:**

**Inauguration Ceremony:** The most attractive thing of Inaugural was grand marathmoli dindi by all the Students of VJTI and Warkari Mandal along with the Dhol-PathakInauguration ceremony of Rangawardhan’16 was graced by the presence of **Hon.Dr. Prakash Amte and Hon. Dr. Mandakini Amte.**

In the memory of the day and presence of such a great personalities, a tree plantation ceremony was also done.

**Pathnatya:** With simple costumes and props, with little or no amplification of sounds, Pathnatya, the street play competition is the most effective mode to spread social messages. Teams from various colleges from all over the Mumbai participated in the competition.

**Nrutyavishkar** – Surely dance unifies the mind, heart and soul. Nrutyavishkar, the solo, duet and group dance competition of Rangawardhan, is one of the most crowd pulling competitions of Rangawardhan. Nrutyavishkar honours the rich Maharashtrian traditional dance forms.

**Gaane Tarane** – A Gala fest of singers singing their songs fled the Audiences with melodious voices.

**Ekpatri:** Ekpatri is the very prestigious monoact competition. All the participants from all over the colleges of Mumbai perform drama skits individually with just essential setup.

**Kawadasa** – Kawadasa, the gem in the crown of Rangawardhan, judged by the experts and appreciated by all. Kawadasa experiences huge theatre loving crowd. Good no. of participation from 10 different Colleges. A qualifying round was set for the Kawadasa. The top 5 plays were in the final round. Kawadasa was a huge success this year.

### **Debate & Literary Arts Society (DLA)**

#### **Introduction**

The Debate & Literary Arts (DLA) Society has been a platform for VJTI’s young engineers to showcase their talent in fields outside the technical realm.

Debate and Literary Arts are essential in today’s increasingly competitive world as excellence is now standard and the extra ordinary is now the ordinary. It’s about pushing your mind into places you never imagined.

This is what is needed for one to succeed in the real world and we, the DLA society, hope to guide the students along this path.

#### **Objectives**

The DLA Society will work towards achieving four major objectives:

1. Preparing students for debates, group discussions and the like, required in today’s competitive learning and job arena, where students’ verbal skills are tested extensively. The DLA Society aims to hold regular group discussions, competitions and other activities where students’ will be able to work on their communication skills as well as foster a sense of healthy competition.

2. Exposing students to subjects other than those associated with their engineering syllabus. For a student to be equipped with the necessary skills to face the real world, he/she would require a holistic education. Therefore, the DLA society aims to organize regular seminars and lectures on Economics, Literature, Business, Creative Writing, etc.
3. Through VJ News, the official VJTI newsletter, we create a platform where students can nurture and hone their writing skills. We hope to inculcate in students a passion for reading, writing and debating which would only help them in the long run.
4. Encourage a better understanding of the subjects they learn in college, by organizing interactive seminars and lectures by eminent research fellows as well as authors of various engineering textbooks.

### **Year-round Activities**

#### **The VJTI MUN Club**

The Model United Nations is an academic simulation of the United Nations that aims to educate participants about civics, current events, effective communication, globalization and multilateral diplomacy. In standard Model UN students take on roles as diplomats, research a country, investigate international issues, debate, deliberate, consult, and then develop solutions to world problems.

During a conference, participants must employ a variety of communication and critical thinking skills in order to represent the policies of their country. These skills include public speaking, group communication, research, policy analysis, active listening, negotiating, conflict resolution, note taking, and technical writing. Hence to equip our students with all these important skills we propose to hold practice MUN sessions which would also familiarize the students with its lengthy protocols and procedures.

The 'VJ MUN' organized by the DLA society completed 11 years this January 2016, and is now well renowned and is recognized as a National MUN and is now also affiliated to the UNIC (India and Bhutan) We have seen participants from as far away Aachen-Germany, BITS-Goa, Rajiv Gandhi National University of Law-Punjab, IIT-B, ICT Mumbai, etc. 50% of VJMUN participants are usually VJTI students.

Thus the VJMUN has also given the students of VJTI a platform for interaction with their peers from all over the country as well as from abroad and has thus helped in mixing of thoughts ideas as well as helped the students to network with their peers.

In addition to this, many students from our college have participated and won in National MUN's in part due to the knowledge, experience & encouragement provided by the DLA. We hope to take this a step further by equipping our institute's students with enough expertise so as to be able to participate in international MUN's such as the Harvard World MUN, we plan to achieve this by means of this MUN Club.

#### **The VJTI Quiz Club**

In today's competitive world, a student's knowledge of current affairs, History, Business, etc. is vital in not only enabling him/her to obtain a job, but also for admission to a post-graduate course. Employers and universities value a student who is cognizant of the world around him/her, and any knowledge of subjects apart from his/her academic syllabus is appreciated greatly.

#### **Participation in National Festivals/Competitions**

A student's participation in competitions outside VJTI is essential for his/her overall development. They can interact with their peers in other colleges and network with like-minded people. The DLA Society will represent VJTI at all Inter-College festivals involving Debates, MUNs, and literary activities.

#### **Inter-College Debate Competitions**

In the upcoming academic year, the DLA society plans to schedule debates with other colleges in Mumbai such as the Institute of Chemical Technology (ICT), St. Xavier's College, and IIT-Bombay. Debates help in the development of speaking skills, which are required in interviews. Debates and

Group Discussions also form an important part of the selection process for many universities as well as companies.

### **Interactive Workshops and Seminars**

Interactive workshops and Seminars will be conducted on topics of interest. Possible Topics: Creative Writing ,An Introduction to Economics, Interview Skills, How To Make A Resume, Interactive seminars with eminent researchers and authors, etc.

### **Events 2016-17**

#### **VJMUN (7th & 8th January 2017)**

The Model United Nations, popularly known as MUN is the flagship event in the DLA calendar. VJTI is a pioneer when it comes to MUN among engineering colleges and we hope to innovate further and make the event more enjoyable and accessible to everyone. There will be a special MUN coordinator who will ensure that the event goes off smoothly.

The 'VJ MUN' organized by the DLA society completed 12 years this January 2017 ,and is now well renowned and is recognized as a National MUN and is now also affiliated to the UNIC ( India and Bhutan). We have seen participants from as far away Aachen-Germany, BITS-Goa, Rajiv Gandhi National University of Law-Punjab, IIT-B, ICT Mumbai, etc. 50% of VJMUN participants are usually VJTI students.

Thus the VJMUN has also given the students of VJTI a platform for interaction with their peers from all over the country as well as from abroad and has thus helped in mixing of thoughts ideas as well as helped the students to network with their peers.

Being an extremely formal and tenacious event, it tests one's knowledge of the world and communication. Hence to put these skills to test the situations proposed will be outlandish, pushing our young diplomats to the extremes of their ability. It has been traditionally held over the duration of a weekend in the first 2 weeks of January, so as to encourage maximum participation in college students without affecting academic performance.

#### **The VJTI Quiz (19th December 2016)**

A conventional quiz on Sports, Current affairs, History, Technology. Science, Entertainment and Geography, it is one of the biggest events in the DLA calendar and is conducted during Pratibimb. It was held during Pratibimb '16. It is attended by students from VJTI as well as outside colleges. This event gives the students exposure to competition from other colleges.

#### **MUN Workshop (24th September 2016)**

A MUN workshop is held every year to encourage people to participate in MUN's and also to expose them to the various aspects of public speaking. This workshop is conducted by alumni who have years of experience in this field.

#### **The DLA Quiz (3rd October 2016)**

A conventional quiz on Sports, Current affairs, History, Technology. Science, Entertainment and Geography. This event's participation will be limited only to students of our institute in order to encourage and foster curiosity with regard to quizzes in students from our institute and serve as a platform which helps them to gain confidence in quizzing.

#### **Just a Minute (19th December 2016)**

A competition where each speaker gets 1 minute to express their views on a certain topic. This helps the students to be concise express their views precisely due to time constraint. It was held during Pratibimb '16.

#### **Bharaton Project Workshop (2nd October 2016)**

The Bharathon Project is an informal event aimed at getting people from various fields together to work towards solving the India's most crucial, non- partisan issues that impact the largest number of people/have a large impact/target vulnerable groups. The event was attended by 25 students of various backgrounds. After a few brainstorming sessions students got a deeper insight on the issue.

## **New Online Initiatives**

This year new online initiatives were introduced to enhance the holistic skills of students.

### **VJ.NEWS**

VJ.News is the official VJTI newsletter, which used be published four times every academic year. The Debate & Literary Arts Society carries out the entire execution and coordination of VJ.News. It was made online keeping in mind the environmental issues we are faced with in recent times. VJ.News incorporates myriad issues such as placement information, internship advice, events, competitions, information on competitive exams such as the GRE and CAT, society announcements, editorials and student and faculty columns. Articles written by students, expressing their opinions, perceptions and experiences at VJTI are a primary element of the newsletter.

This year we published two editions of VJNEWS. The third edition is expected by March '17

### **DLA Tales**

DLA Tales are short stories which provide a meaningful insight on certain topics. Students from various branches of VJTI submitted many such tales, many of which were also uploaded on social media.

### **Humans Of VJTI**

Inspiring stories of faculty, staff and students were posted online with the aim that the students find some inspiration and keep themselves motivated in their pursuit of education.

## **E-Cell Activities**

### **E-Quiz 1.0**

**Date:** 24<sup>th</sup> August, 2016

**Event Details:** The event was conducted by the Entrepreneurship Cell and it was the second quiz of the monthly quiz series.

**Theme:** The theme of the quiz was 'Indian Startups'. This theme was chosen to encourage people to know more about where our country stands in the world of Start-ups. Indian Start-ups consists big names and people hardly realize it. So as to educate people about it, the said theme was a good choice.

**Event Description:** The event began at 5:15 pm, since the students after finishing their college lectures reached at the venue. All the participants were seated and given basic introduction to the format of the quiz. This time was also utilized to inform the participants about the rules of the quiz.

Once the participants were ready, at 5:30 pm they were presented with the first round of the quiz which is the General Quiz. The rules were simple, the participants were given a sheet of questions with multiple choice answers which they have to answer in 15 minutes. At the end 6 teams with highest scores would move on to the second round which is the Main Quiz.

The theme was presented in a well versed manner where the questions stunned the participants for the knowledge they had on the said topic. Innovative ideas in making the jackpot rounds informed the students more about Ratan Tata and how he himself is involved in the Startup Ecosystem. Participants learned even unknowingly how much they are surrounded by Entrepreneurs.

### **E-Quiz 2.0**

**Date:** 22<sup>nd</sup> July, 2016

**Event Details:** The event was conducted by the Entrepreneurship Cell and it was the first quiz of the monthly quiz series.

**Theme:** The theme of the quiz was 'E-Commerce'. The theme was chosen because it laid a good foundation for the beginning of the quiz series. The world is now more than ever is using internet. And thus people don't shy from shopping online.

Thus this mix led to the e-commerce theme.

**Event Description:** The event began at 5:15 pm, since the students after finishing their college lectures reached at MSH. All the participants were seated and given basic introduction to the format of the quiz. This time was also utilized to inform the participants about the rules of the quiz.

Once the participants were ready, at 5:30 pm they were presented with the first round of the quiz which is the General Quiz. The rules were simple, the participants were given a sheet of questions with multiple choice answers which they have to answer in 15 minutes. At the end 6 teams with highest scores would move on to the second round which is the Main Quiz.

The series was started to let people know and gain more knowledge about basic things we usually overlook. Simple things like the online bazaars fascinate people and thus was the best choice to begin with. Although participants thought that they were smart enough, the tricky questions gave information that nobody had ever predicted. A new and wild quiz competition from E-Cell brought a new wave of excitement among the students of VJTI and we look forward to have more successful instalments.

### **Startup Weekend**

**Date:** 17<sup>th</sup> and 18<sup>th</sup> September, 2016

E-Cell, VJTI in association with VJTI Alumni Association organised 'Startup Weekend', the first event of its type in VJTI on 17<sup>th</sup> and 18<sup>th</sup> September. It was a sneak peek of what they have in store for us during their flagship event 'Startup Netcon' which will take place on the 15th and 16th of December.

'Startup Weekend' was a two day extravaganza on the 17th and 18th of September. The event began with the inauguration ceremony by the General Secretary of VJTI Alumni Association. After which was a Startup Workshop by Mr. Amit Tripathi who has been an entrepreneur for the past 20 years and has been actively working to help young entrepreneurs to realise their potential. He spoke about marketing strategies, why people don't take risks and covered the general scenario of the Indian start-up ecosystem. The start-up workshop was followed by a fun event for the students - 'Insane Pitcher's' wherein participants had to convince the judges to invest in their crazy business idea. The insanity level reached its peak during the event as ideas such as having a 'rock as your pet' and 'selling fresh air' were pitched. The first day ended with an inspiring talk by Mr. Santosh Parolekar, CEO of Pipal Tree Ventures Pvt. Ltd. He spoke about social entrepreneurship and how his business is literally about giving back to the society and changing lives.

Day 2 of Startup Weekend commenced with a workshop on 'Being Professional' by Mr. Vipin Ratnaparkhi, senior HR Manager at Emerson. He spoke about the way to conduct oneself in the professional environment and the need for it. After which, a very thoughtful event 'Campuspreneur' was held. Wherein participants proposed great ways to improve and develop their alma mater, VJTI. The weekend ended with a much needed talk on women entrepreneurship. Women today are revolutionising their position in every sector out there and the talks by 'Firoza Nadaf' and 'Ujwala Haware' proved just that. They spoke about their journey, the difficulties they faced and encouraged the audience to go out there and change the world.

E-Cell, VJTI in association with VJTI Alumni Association organised and delivered the perfect assortment of events, seminars and interactive sessions for every young entrepreneur out there. We thank our Mentor Dr. N.P. Gulhane for supporting us throughout this initiative and help us promote the spirit of entrepreneurship in VJTI. Dr. Sanjay M.G. for giving valuable insights and suggestions during Campuspreneur event. We would also like to thank Mr. and Mrs. Kalyan Raman for gracing the occasion and providing valuable tips and shedding light on opportunities for VJTI students through mentoring and

networking of the vast Alumni network, Mr. Umesh Gupta, the Charman of VJTI Alumni Association and all the guests, judges as well as the students involved, in making this event a grand success. Looking forward to the mega event of Startup Networking Conference.

### **Lenovo Seminar**

**Date:** 21<sup>st</sup> September, 2016

On the 21st September E-Cell, VJTI had invited a very reputed person in society, to share his experiences and a few wise words with the VJTI students. His company being a part of the elite family of large-scale tech companies in the nation; one of the leading figures in the Indian corporate world, we were proud to have Managing Director-Lenovo India Mr. Rahul

Agarwal with us that day. The very interesting interactive session, began with a brief introduction of the speaker, given by one of our anchors. He was then requested to come on the dice and address the hundred plus audience at the MSH. He was given a warm welcome by the enthusiastic students of B.Tech as well as M.Tech from all the verticals of engineering. Mr. Rahul Agarwal was also accompanied by one of his colleague at Lenovo Mr. Iyer. The speaker for the evening, first spoke about himself for a while; about his education, family and his career path which led him to the top of such a leading and reputed institution in the field of technology. He comes from a very humble family background and did not have anything extra ordinary in his resume even after his graduation. Then, on a lighter note, he spoke about how his wish to own a car one day, encouraged him to prepare, appear and clear CAT, and enter one of the most premium MBA colleges in the country- the IIM. He was placed at IBM and was eventually shifted to Lenovo as the latter acquired the former. He has worked in sales and marketing before getting onto the top post of the company.

Following the insights about his adventurous life, a question and answer session was conducted. Around a dozen students asked him questions, from technical as well as commercial background. A few were about the difficulties he faces at work, his future plans of Lenovo India and his work schedule in this very competitive oligopoly market. As the interactive session concluded, they thanked E-Cell, VJTI for having them invited. The E-Cell management gave a vote of thanks and lastly General Secretary of E-Cell, VJTI, and Aditya Dutta presented them with the memento of appreciation. It was a delightful experience for us, the E-Cell committee, to have such a talented and experienced man among us. Thank you sir, for giving us an opportunity to do the same.

### **E-Quiz 3.0**

**Date:** 30<sup>th</sup> September, 2016

**Theme:** The theme of the quiz was ‘The Newspaper’. This particular theme was selected so that the students should understand how important it is to have the knowledge of the whereabouts of the nation and the world. This theme also put the students to test who actively like to participate in quizzes.

**Event Description:** The event swung into action at 5:15 pm since the students after finishing their college lectures reached the MSH. All the participants were seated and given basic introduction to the format of the quiz. This time was also utilized to inform the participants about the rules of the quiz.

Once the participants were ready, at 5:30 pm they were presented with the first round of the quiz which is the General Quiz. The rules were simple, the participants were given a sheet of questions with multiple choice answers which they have to answer in 15 minutes. At the end 6 teams with highest scores would move on to the second round which is the Main Quiz. This quiz saw a good response from the students of First Year’s and Second Year’s.

The theme being Newspaper, the quiz was presented as a journey through a daily newspaper. Each question asked in the quiz was based upon a particular sector in a newspaper. Finance & Economics, Lifestyle & Health, Politics, Entertainment, Technology, Editorial, Sports were some of the sectors included in the main quiz. The Main Quiz began at 6:50 pm and was on for 30 minutes, thus ending at 6:20 pm.

After working with E-Cell for some time now, two of the students of Second Year were given the post of Event Head for the quiz as they would learn how to manage an event. The teams

went of a fierce competition and finally 2 teams emerged victorious.

#### **E-Quiz 4.0**

**Date:** 24th of October, 2016

On Tuesday, the 24th of October, E-Cell, VJTI organised the fourth instalment of the monthly quiz series - 'E-Quiz, 4.0.

The topic of the quiz was 'Advertisements, Brands and Logo's'

The quiz began at 5:15 pm in the Mechanical Seminar Hall. It consisted of two rounds with 3 jackpot rounds.

Round 1 was a written general quiz with a MCQ format. Round two had a total of 15 questions, after every 5 questions, a jackpot round was held, these rounds were buzzer rounds and questions were displayed on a screen with the help of a projector.

Questions ranged from a wide range of topics, the highlight of the quiz were the audio questions wherein the participants were asked questions based on an audio tune of some advertisement.

The quiz ended with two winners, each receiving a cash prize and an E-Cell, VJTI certificate.

#### **Epiphany Report**

21 October 2016 was a remarkable day for every attendee of Epiphany, a joint venture by E-Cell NIT Trichy and E-Cell VJTI. The event was star studded with giants from reputed VC firms like Lemon Ideas and NASSCOM. Believing in the words of Tim O Niel " You cannot business model your way of a shitty project ", the first stage was Ideation wherein budding entrepreneurs from all over Mumbai were given opportunity to present their ideas in 45sec.

The panel of experts selected 6 ideas out of more than 20 ideas, keeping in mind factors like, and I quote "feasibility, Need and most importantly your passion"

This was followed by the experts coming down to us individually and explaining the intricate details of a business model canvas. Various start-up ideas were given tips on where to focus and what will play a major role in success of your idea.

The entrepreneurs, now equipped with their business model were ready to showcase their idea in a much grander and feasible way. After going through each model in depth the jury declared the winner but also motivated fellow students to pursue their ideas. The event concluded by a inspiring talk by each of the experts, and each student had took the first step in the long long journey of a Startup.

#### **Startup Networking Conference 15<sup>th</sup>, 16<sup>th</sup> & 17<sup>th</sup> December, 2016**

The second edition of Startup NetCon, by E-Cell VJTI in association with the Alumni association, came to an end on the 17th of December. This three day extravaganza witnessed revolutionary startups from different arenas, investors, students and startup enthusiasts from across India.

With the theme of Networking India, Startup NetCon brought all the pieces of the Startup Ecosystem under one roof for these two days. With a footfall of 4,000 entrepreneurs, techies, marketers, game changers, achievers and startup ecosystem players, the Startup NetCon turned out to be successful in its mission to :

- Facilitate interaction between students, industry experts, business leaders, investors and entrepreneurs who share the common zeal for being out of the league.
- Showcase global trends in entrepreneurship and ways in which the Indian ecosystem is keeping pace with these trends.
- Serve as a one stop destination to learn as well apply the skills needed to be an entrepreneur.
- Provide a meet-up point for the youth to interact with their role models and learn from their experiences.
- Act as a catalyst in introducing students to the world of entrepreneurship by providing them an opportunity to learn about it in a myriad of ways which includes competitions, panel discussions, workshops etc.



- Provide a platform for brainstorming, mentoring and funding of startup ideas of students of VJTI.

With the support of our beloved Director, Dr. O.G Kakde, the SNC team successfully organised the following events to promote the startup culture in VJTI.

**Day1:**

□ **Inaugural Ceremony:**

To grace the opening ceremony, we were delighted to have

- 1) **Dr. Tausif Malik**- First International Speaker, creator of America's Second Largest competition TMA Worldwide LLC, Serial & Social Entrepreneur, Editor & Publisher. He shared his extreme knowledge in the field of entrepreneurship and won the heart of attendees by sharing his story of how he started off.
- 2) **Mr. Raman Jokhakar**- CA, Ex-President of ICAI. He delivered an enlightening talk o the journey of an entrepreneur while briefing us some of the chapters of his to be publish book on entrepreneurship.

**The Director of VJTI, Dr. O.G Kakde** put forward the aim of SNC, presented the momentous to the keynote speakers and declared SNC 2016 open.

- **Terribly Tiny Tales Workshop:**

With their motto of Impress by Compress, TTT gave us insights on how to explain more in less and the importance of the same. They presented some of their work pieces as examples, followed by a brainstorming session which focussed on the metaphors that can be used in write ups to create an impact on the readers and symbolism of objects. After a Q and A session, the audience submitted their tales, with the best ones being read out aloud.

The audience thereby took with them the dos and don'ts of tale writing which is one of the major aspects of marketing.

- **National Stock Exchange Workshop:**

The **National Stock Exchange of India Limited (NSE)** is the leading stock exchange of India, located in Mumbai. It's the first exchange in the country to provide a modern, fully automated screen-based electronic trading system which offers easy trading facility to the investors spread across the length and breadth of the country. **Mr. Gangandeeep Singh**, from NSE, enlightened the audience on how to add value to a company, covered important topics such as Initial Public Offering, changes in the financial market and their effects on a company.

The audience learnt about stock market and the broad economic effects the developments in the financial market have.

- **Seminar on Women Entrepreneurship:**

- 1) **Miss Sherina Kapany, Founder of sunSTRATEGIC:** She shared her life journey, the challenges and struggles faced by her on her journey to the top while inspiring all the young ladies out there to fight for their dreams and pursue their careers no matter what the odds are. sunStrategic is a Digital Marketing startup run by Miss Sherina Kapany with her team of young enthusiasts. She also threw some light on the importance of digital marketing for startups and the characteristics of successful digital marketing.
- 2) **Miss Nupur Hemant, Founder of VentureHub:** She focussed on how women are challenging the existing norms, and finally seem to be making more headway in leadership in business and politics. She also stressed on the changes that are still needed in the society. She encouraged the audience to celebrate women entrepreneurship for all the hard-working women out there.

- **Startup Expo:**

The Startup Expo provided a showcase of the emerging startup ecosystem of India under one roof and an opportunity for the startups to participate in Pitch for a Million, thus helping them to scale the heights towards making of an enterprise. It comprised of three major sectors:

**1. Startups** - Startups from various sectors were allotted space wherein they showcased their work, technologies and products.

2. **Internships Arena** – Interested students could avail internships from startups, in a few easy steps.
3. **Investors Arena** - Startups interacted with investors and other industry leaders which helped them expand their network and transact business.

- **Stand-up Comedy by Atul Khatri**

Only work and no play makes Jack a dull boy. After a long day of brainstorming sessions, seminars and workshops, SNC day 1 ended on a lighter note. Mr. Atul Khatri, from the East India Comedy, a CEO and also a winner of CEO's Got Talent took over the stage, engaged the audience in some light –hearted humour and cracked everyone up. It was a treat for his fans to watch him perform live. With happy faces everywhere in the audience, Day 1 couldn't see a better end.

**Day 2:**

**E-Talk : Media and People**

By: Mr. Omkar Kore, Senior Vice President, Star India

**Summary:** The seminar mainly focused on the importance of media and its impact in the industry. How the media constantly changes strategy to interest its audience. The seminar also covered the aspects of digital media and its growing market.

**Event Takeaway:** The seminar threw some insights on how we should be updated and change accordingly. The relevance of media in the present era and its contribution towards marketing.

**E-Commerce**

By: Gaurav Dahake, Founder – buyhatke.com

**Summary:** The seminar focused on the emergence of e-commerce and its impact on the market. How the online market constantly changes its trends with time. The seminar also covered the different approaches to digital marketing and its growing market.

**Event Takeaway:** With the CEO of one of the biggest E-commerce company coming down for SNC, students were excited to interact with him and learn the know hews of the digital markets and commerce on internet.

**Reboot Conference**

Celebrating Fail Start-ups - Many Renowned Startup Founders

**Event Summary:**

It's our inbuilt human tendency to be appreciated and applauded for something great into us. Many of us are even more encouraged when motivated. Most of us are inspired by the success stories of others. But what failure can teach us is un-paralled, the chance to learn from mistakes and build a better version of yourself. To inspire and to be inspired, to catalyst the inert talent, these budding entrepreneurs shared their stories and encouraged students in their further Endeavours. "Celebrating Failed Start-ups" gave an opportunity to the audience traversing their journey through their experiences.

**Panel Discussion:** Recent Exits and Shut down of start-ups.

**Panelist:** Mr. Deepak Gupta, Mr. Ajeeth Khurana(Also the Moderator),Mr. Sidhharth Ladsariya ,Mr. Tarun Davda

**Summary:** In this era of entrepreneurship, it is a known fact that while some of entrepreneurs have made a big name for themselves more than 90% of startups have been a failure. The discussion began by defining the terms "exit and shutdown" in the startup ecosystem. It further moved to every panelists giving their opinions on why this has occurred, panelists discussed that many startups shouldn't have been funded by investors in the first place and hence eventually failed. Also that due to investment the startups move too fast and with a metaphor to roads eventually collide due to lack of control. Overall various reasons were discussed and it was concluded that though there have been many fails , it is still the ideal time to join the startup wagon.

**Event Takeaway:** The attendees were encouraged to join entrepreneurship world and were made aware of the possible mistakes that are common. They were told and I quote "*find a problem then its solution and you have a startup, not the other way round*"

**Pitch For a Million:**

**Investor Panel :** Mr. Sanjay Mehta, Mr. Ajeeth Khurana, Mr. Sidhharth Ladsariya, Mr. Amit Tripathi  
**Start-ups :** ALLMYFX , The Manuscript , APL Solutions , Ieacon , KeyQual Tech , Pinslate , Fitness Forks , Reach & Teach , ProfiledSkin , Edulocation , Myriad Automation , Homoto : The

Home Assistant , Equickes , Cab-G , UnoBridge , Matrixon-Street Notion ,Worldof100 ,Fatho Technologies ,TheChairr , Heavy Equipments , Matrixon Food kiosk , Eco Support , Finpeg , Andteck , Intricate Fashions India , Spiring System , Flute - Your Locality Noticeboard , 2gethers , 4u2kids , Matrixon-Street Notion , Shree NAGINA jewelers , Mystic Lotus and Dragonflies Healing LLP

**Summary:**

The flagship event of Start-upNetCon-2016. 10 Minutes 10 Lakhs. This on spot funding event in which the top selected start-ups are allowed to pitch their idea in front of the investor panel for 5 min followed by a 5 min Q&A. After which the investors start raising bid if they want to invest in the Start-up.The event was successfully organized and investors were happy to find innovative startups.

**Event Takeaway:** The startups got real time feedback by investors and many of them were successful to gain funding.

**Panel Discussion: Demonetisation**

**Panel:** Dr. Aditi Sawant and Mr. Shiv Konda

**Summary:**The seminar was aimed at discussing the merits and demerits of a bold move like demonetization. Panelists discussed its effect on small scale individuals to large industries. They gave special focus on its effect on startups like paytm and freecharge. They also discussed how it will boost cashless economy and how such factors affect the national economy.

**Event Takeaway:** The attendees came to in-depth understanding of a strategy like demonetization and its near and far fetched effects on Indian economy.

**Mad Talk**

By: Mad Over Marketing ( M.O.M )

**Summary:** The event was a glimpse into the working of M.O.M and how marketing has changed from generations. The event was aimed at igniting creative marketing in the attendees in a very quick witted and humorous way. It discussed the marketing wars of big companies like Pepsi and Coca cola, Jaguar and Ford etc and how start-ups like zomato, freecharge and amazon market their services with innovation.

**Event Takeaway:** the Attendees went with a invoked interest towards marketing and how “Minimal Marketing” is changing the dynamics of marketing ecosystem.

**E-Cell Events in December - 2016**

**Wallstreet**

**Event Date:** 16-17th December, 2016

**Event Details:**An event based on stock market simulation portal, it was held over 2 days in 4 knockout rounds, in the increasing level of difficulty, based on complexity and the frequency of news, along with a few disorienting tips.

**Event Description/ Summary:**

A total of 42 teams participated in the first round, out of which, 20 teams were shortlisted for the second round, and top 12 teams of the second round qualified for the final round.

All the members of top 12 teams received discount vouchers for courses associated to Bombay Stock Exchange Institute.

**Event Takeaway:**

Participants who had a considerable experience with stock markets procured an opportunity to enhance their investing and comprehension skills, while those who were new to this got to learn a number of concepts based on the stock market. This event was also an attempt to inculcate an interest for stock market investment in the participants, and also disseminate its importance.

**E-QUIZ**

**Event Date:** 15th December 2016: Wild card round 17th December 2016:Semi-final & Final

**Event Details:**

A Business Quiz competition, which was conducted by Quizmaster Bhushan Patel.

**Event Description:**

Semi Final Round - Pen and Paper round with marking +1 for right answer, no negative marking

Final Round - PPT round with Special marking scheme (Bounce and Pounce method).

**Event Takeaway:**

Participants were satisfied with level of Quiz and marking scheme. They gained insights into the business world through this activity. Students participated wholeheartedly in the wild card round. In the semifinals and final the quizmaster mesmerized the audience and the participants enjoyed and learned a lot about the business world through a fun activity.

**Executive Suite**

**Event Date:** 15 December to 16 December, 2016

**Event Details:**

Executive Suite is a mock hiring event aimed at training students for their final year placements consisting of three rounds:

1. Aptitude Test
2. Group Discussion
3. Technical and HR Interview

**Event Summary:**

- The Aptitude Test was conducted on 15 December.
- Out of the 100 registered participants, 60 were present for the Aptitude Test.
  
- Based on their scores, 26 students were shortlisted for the second round.
- The second and third rounds were conducted on 16 December.
- Based on their performance in the Group Discussion, 7 students were shortlisted by the judges for the Technical and HR Interview.
- Based on their performance in the interviews, winners of Executive Suite were declared by the judges:  
First place: Saurav Yadav  
Second place: Akash Shah

**Event Takeaway:**

- Participants of Executive Suite get hands-on training about the placement process.
- They also get acquainted to the different ways of tackling their Aptitude Tests, Group Discussions and Personal Interviews.

**The Consultant :**

**Event Date:** 16<sup>th</sup> December 2016

**Judges:** Mr. Devang Kanavia ( Partner at Altor Executive Search ) and Mr. Deshpande (Senior VP at General Instruments Consortium)

**Summary:** The event provided the students to be a part of real world consultancy . The participants were already taken to a industry visit on 7<sup>th</sup> December 2016 to general instruments consortium and were ready to provide their solutions to the problems discussed. They event took off by a small introduction of esteemed judges and guidelines of rules and regulations . A total of 7 teams gave their presentation one by one , 10 minutes for presentation and 5 minutes for Q&A .At the end the judges appreciated the solutions and innovation by the participants and gave their results based on economy , efficiency and understanding of problem. The event ended by Mr. Devang Kanavia giving them advice on solutions and importance of asking questions

**Event Takeaway:** The participants were exposed to real world industrial problems and the working of consultancies. They were given a opportunity to present their solutions to panel of experts and learnt the importance of asking the right questions.

**HiRE 2.0 '16**

**Event Date:** 24<sup>th</sup> December 2016

**Event Details:** HiRE is a virtual corporate event where students get a chance to become HR managers or Employees. It is a national level competition where each team gets a stall to sell their products or services and can maximize their profits.

There are 4 sectors:

Food

Fun and games

One day workshop

Merchandise

Each sector has 2 HR managers and 3-5 employees working for them.

The 4 teams have now to put up their stalls on the 24th of December and using their marketing skills and strategies to make the maximum profit.

The last round of HiRE 2.0 is a power point presentation where every team will explain their strategies in front of the judge panel.

The judging criteria:

1. Innovative marketing strategies (Posters, videos, other strategies)
2. Cost price to selling price hype
3. Type of items sold/ type of workshop arranged
4. Team work
5. Utilisation of initial investment, if taken
6. No. of items sold (no. Of customers entertained)
7. Marketing of their sector during employee interviews
8. Tackling challenges
9. Work division within HRs and employees
10. Profit earned

**Event Description/ Summary:-**

This event is divided into FOUR rounds as follows:

**Round 1: HR Selection**

This round will deal with the selection of the HR managers on the basis of the answers they have submitted in the google forms. This decision will be solely taken by a professional.

The selected HR managers will then be allotted their sectors on the basis of their performance in the HR manager's google form.

**Round 2 : Employee Selection**

This round will consist of an interview session wherein all the selected HR managers will take the interviews of the people who have applied for the post of the Employee. This will be a one day programme and all the HR managers will be seated according to the sectors allotted to them. HR managers would promote their individual sector one week prior to the employee interviews to get maximum applicants for the post of employee.

**Round 3: The HiRE 2.0 Day.**

This day will be the main event day and all the teams will put up their products/services on display for the people to purchase. Here will be your chance to showcase your marketing skills and gather maximum profit as possible. Mind you, this round may have twists and turns too. And initial investment would be provided, if required, to the HR managers to maximise the profit.

**Round 4 : Presentations and Congratulations!**

This round will be held on the same day as the main event day. Here you have to basically create a presentation wherein you will tell about the strategies and the techniques used by your team to make profits. Judging will be done by a panel of professionals on the basis of your skills, strategies, your ability to face sudden twists and turns and finally your overall potential.

**EVENT TAKEAWAY:-**

The main motto of this techno-managerial event was to expose students to the mechanism of corporate world and also to make the participants learn things beyond just the market. Some of them being:

1. Team work.
2. Facing interviews
3. Ethical approach in business
4. Strategies for marketing their products
5. Exposure to the corporate world
6. Learning to face challenges in business
7. Facing sudden twists and turns during the event
8. Making the best out of what is provided to them
9. Some challenges were faced by the participants during the event, like change of venue at the last

moment, delays in the opening of classrooms, stalls space in an un-crowded area, plug points provision delay, so these gave exposure to the participants to face on the spot difficulties which were unknown. (These challenges were thought by the EHs before and points were given to the participants based on their tackling of the problems.

10. Presenting their work in front of a panel of judges needs confidence which was boosted by this event.

### **FREAKONOMICS'16**

**Event Date:** 20<sup>th</sup> December, 2016

**Event Details:** FREAKONOMICS is a simulation based parliamentary procedure, with participants debating on questions befitting our policy makers & providing their cognitive views. The round table debating shed some light on our financial and economic frontier.

**Event Takeaway:** The participants learned about Indian Economic Policies. They got in depth knowledge about how our parliament works and the legislative procedure through his stimulatory event. The topics chosen were based on recent activities across our country like GST bill, FDI, union budget and Demonetization.

### **ADOMANIA'16**

**Event Date:** 22<sup>nd</sup> December, 2016

**Event Details:** ADOMANIA is an AD film making competition. This competition was executed in 2 Levels wherein the 1st level consisted of making an AD on various consumer products, and in 2nd level the participants were asked to make a short film on "Value of Education".

**Event Takeaway:** The participants reviewed the event by mentioning that they had a wonderful. Experience in understanding cinematography, script writing, direction and various other aspects of film making by working with new technologies and software.

### **Message from Team E-Cell**

We thank our beloved Director, Dr. O.G. Kakade and our mentor Dr. N.P. Gulhane for supporting us throughout this journey and help us promote the spirit of entrepreneurship in VJTI., Dr. Sanjay M.G. for giving valuable insights and suggestions. We would also like to thank the complete Managing Committee team of VJTI Alumni Association along with Mr. and Mrs. Kalyan Raman for giving opportunities for VJTI students through mentoring and networking of the vast Alumni network, Mr. Umesh Gupta, the Charman of VJTI Alumni Association and all the guests, judges as well as the students involved, in making E-Cell events a grand success.

# Glimpses of VJTI

## Mechanical Engineering Department



Mechanical Engineering Lab



CAD/CAM Laboratory



Computational Fluid Dynamics lab





## Cryogenics Lab



## Fluid Mechanics and Fluid Power Lab



## Graphics User Interface (GUI) Lab



## Heat Engines





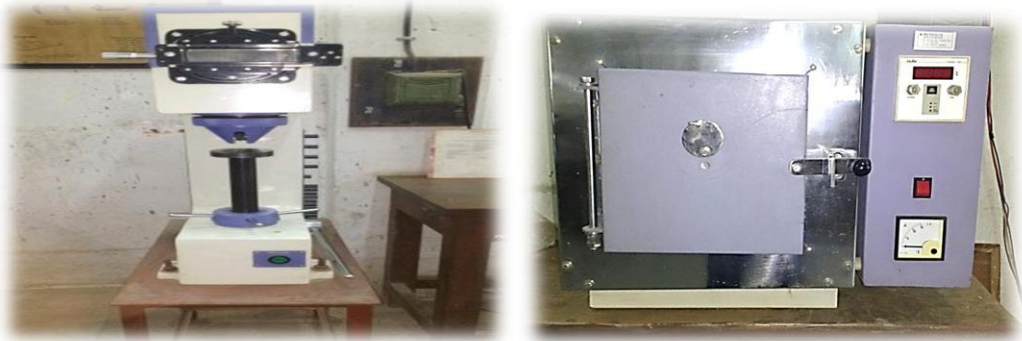
## Heat Transfer and Thermodynamics Lab



## Machine Dynamics & Vibration Lab



## Mechanical Measurement and Control Lab



## Metallurgy Lab



## Non-Conventional Energy Lab



## Refrigeration Air Conditioning Lab



## Robotics and Animation Lab



## Technical Excellence Centre Wind Tunnel Lab







Machine Shop



SAE BAJA

## Visits of Dignitaries/Committees (with photos)



Shri Sanjay Kirloskar, KBL Chairman



SO.P K Limaye (BARC), Secretary , Tribology Society of India, Mumbai  
Pune Chapter

## Electrical Department



Machines Lab-I



VLSI lab



HV Lab



DSP Lab



VLSI Lab



Communication Lab



Power Electrical Lab



Biomedical Lab





Computer Lab II



Control Lab



Microprocessor Lab



Circuits Lab



Switchgear & Protection lab



Machine Lab



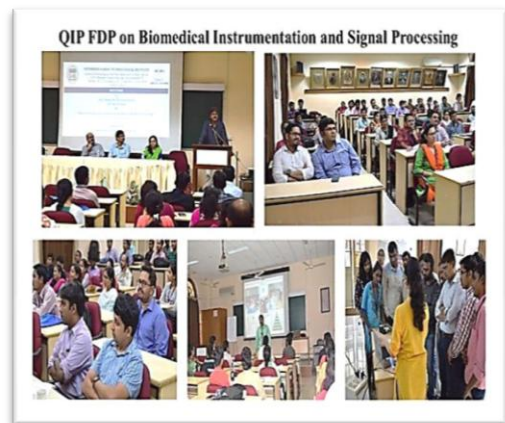
Controls & Instrumentation



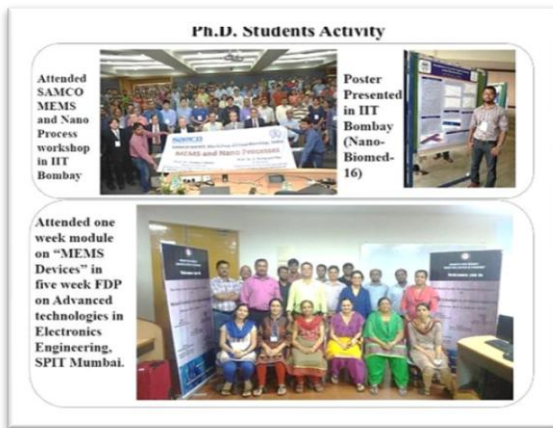
Digital Communication



HV Lab







## Structural Department



Different views of Soil Mechanics/Geotechnical Lab



Applied Mechanics Lab



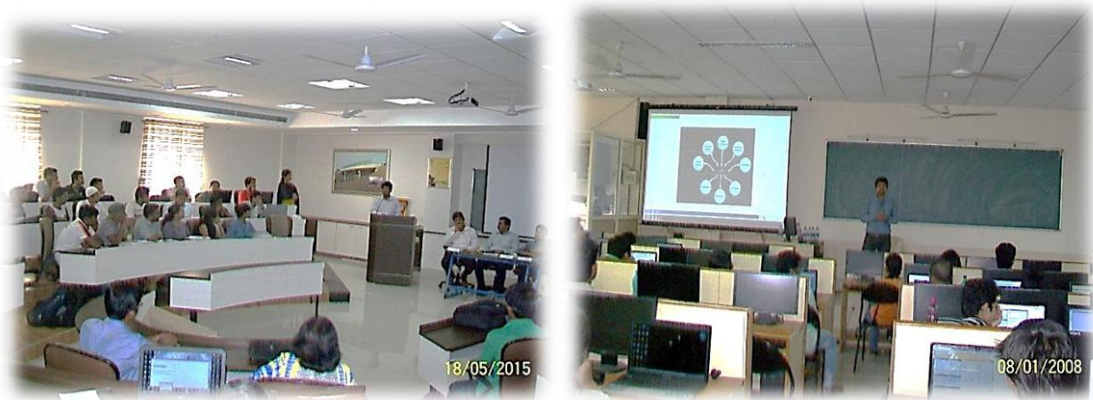
View of Concrete Technology Lab







Different views of Strength of material Lab



Soft Skill Development and Software Application in Structural Engineering



Departmental Poster Presentation of Ph.D Students

## Production Department



Metrology Lab



CAD/CAM Lab



Process Lab

## MCA Department



Operating System Lab



Programming Lab



Data Base Lab



# Computer & IT Department



Lab 1a



Lab 1b



Lab 2b



Lab 3a



Advance Network Lab



Server Lab



MComp Lab 3



MComp Lab 1



CITIUS Tech Excellence award



Felicitation for retirement of Mr. P.R Pawar working as a technical assistant









Students performing experiments in various labs



# Civil Engineering Department



Hydraulics Laboratory



Transportation Engineering Lab



Engineering Geology Laboratory



Air Pollution Lab



Environmental Engineering Lab





PG Computer Lab



Land Surveying Laboratory



UG Computer Laboratory



Plumbing Lab



Departmental Library



ClassRoom



Site Visit: Bhandup Water Tunnel Project at Kapurbawdi, Mumbai For VDCE Student



Organized 3 day site visit Sauni Dam Link Project at Gujarat from 20-22 Dec 2015 for VIDCE student



Modernization of Labs



## Technovanza



## Fine arts



Paintings month of August 2015 Charcoal Sketching Workshop



Canteen Wall Painting



Art Gallery



## ANNUAL REPORT (2016-17) COMMITTEE

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*The Committee thanks the following for supplying relevant data:*

**Training and Placement Officer**

**Controller of Examination (Degree)**

**Dean & Controller of Examination (Diploma)**

**Convener, ICC**

**Dean/Assistant Dean Students Activities**

**Assistant Librarian**

*The committee is thankful to all the others who have helped in report development.*