

# Annual Report

2019-2020



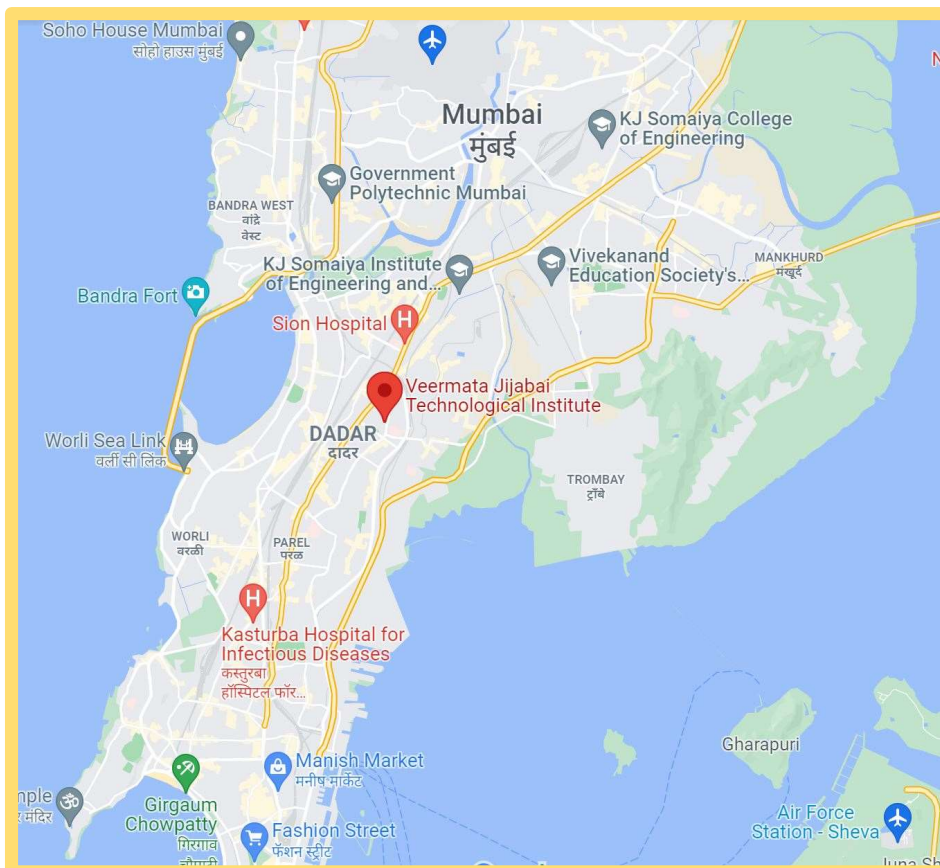
Veermata Jijabai Technological Institute,  
Mumbai, India.

# About VJTI...

Veermata Jijabai Technological Institute, Mumbai, known for its high-quality teaching, collaborative research, industry connect and strong alumni network, was established in 1887 as Victoria Jubilee Technical Institute.

Situated in the central part of Mumbai, the bustling financial capital of the country, it is located at Matunga (East) on a campus of 16.5 Acres near Five Gardens. It is surrounded by Don Bosco School, Institute of Chemical Technology, Khalsa college and Central Institute for Research on Cotton Technology in Matunga.

VJTI is an autonomous institution (Tier-I) of Government of Maharashtra. The Institute offers programs in engineering and technology at the diploma, degree, post-graduate and doctoral levels.



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# VALUES

- Devotion to work, integrity and honesty
- Respect for all persons
- Encourage Diversity
- Encourage innovation and creativity
- Work in a team and cooperate

# 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.

# VISION

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



# From Director's Desk

Greetings from VJTI Mumbai,

Veermata Jijabai Technological Institute has been in the forefront in producing engineers for nation building since 1887.

We have been continuously augmenting our teaching, learning and research environment, work and personal lives considering the Institute's vision and mission of building the next generation of technocrats, innovators and visionaries; and taking technology to Society.

Improving students' satisfaction level and empowering them with new opportunities are the core principles of VJTI. We have enhanced facilitating and encouraging students to fulfil their aspirations and participate in technical, co-curricular and extra-curricular activities and competitions.

We are aligning our mission to challenges associated with United Nations Sustainable Development goals and working on local and universally acceptable innovative solutions made in VJTI for global good. This shift is immensely helping us attain new insights and ways forward. We are in the process of setting up new Centers of Excellence at all departments. We are aligning our curriculum to the latest pedagogical practices, emphasizing project-oriented learning, and technologies for solving problems for society.

Students and Alumni are our true brand ambassadors. Our students have won national and global hackathons. We are touched by the enormous contribution and confidence alumni and well-wishers have placed in the Institute.



With a mission of keeping VJTI clean, green and environment friendly, we are doing repairs and restoration of our old heritage buildings and other facilities; giving a decent looks to the institute.

Our faculty and staff members have joined hand to facilitate students and upgrade VJTI teaching-learning-research ecosystem. We are doing very well with Consultancy, Outreach, Research and Academic collaborations, and Industry partnerships. We are actively working on on-line digital education delivery as complementing channel and relevant evaluation system.

The world has shown trust in our work, which resulted in our collaborations with Universities, Industries and R&D organizations of high repute. We are receiving visiting experts from the leading institutions and R&D labs from India and abroad.

Similarly, our students and faculty also made their presence felt on national and international platforms. All these are taking us to enhancing Globalization of education at our institute opening new opportunities for our students, faculty and staff. We stand ready for the ambitious task of re-establishing ourselves as an institution of global stature, which can contribute to the nation's building through technology. We are among the most respected campuses, who are heading towards being a landmark on the world map. We have excellent placement records both in terms of quantity and quality employment (100% placement with high value packages). Technology Based Incubator at VJTI under DST NIDHI TBI project has attracted top notch entrepreneurs and we see thriving start-up echo system in place.

As we consolidate our experiences from our eventful past and the present, we are now crafting a step-by-step vision for our future. Our focus has been innovation, and we expect that the lessons we picked up along the way will help the next phase of our growth.

**- Dr. Dhiren Patel**

# Academics

## PROGRAMMES OFFERED

### DIPLOMA

Civil Engineering | Electrical Engineering | Electronics Engineering | Mechanical Engineering | Textile Manufactures | Chemical Engineering

### B TECH

Civil Engineering | Computer Engineering | Information Technology | Electrical Engineering | Electronics Engineering | Electronics and Telecommunication Engineering | Mechanical Engineering | Production Engineering | Textile Technology

### M TECH

Civil Engineering with Environmental Engineering | Civil Engineering with Construction Management | Civil Engineering with Structural Engineering | Computer Engineering | Network Infrastructure Management Systems | Software Engineering | Electrical Engineering with control Systems | Electrical Engineering with Power Systems | Electronics Engineering | Electronics and Telecommunication Engineering | Mechanical Engineering with Machine Design | Mechanical Engineering with Automobile Engineering | Mechanical Engineering with CAD/CAM and Automation | Mechanical Engineering with Thermal Engineering | Production Engineering | Project Management | Textile Technology

### MCA

Computer Applications

### PhD

Civil Engineering | Computer Engineering | Electrical Engineering Electronics Engineering | Mechanical Engineering | Production Engineering | Textile Engineering Computer Applications | Physics | Chemistry

## CENTERS

### CENTRE OF EXCELLENCE IN COMPLEX & NONLINEAR DYNAMICAL SYSTEMS (COE-CNDS)

Centre of Excellence (CoE) in Complex & Nonlinear Dynamical Systems (CNDS) was established at VJTI under funding from Government of India through Technical Education Quality Improvement Program. The main objective of CoE CNDS is to act as a focal point for the interdisciplinary research into the theory of complex and nonlinear dynamical systems and its applications across science and engineering branches. Main areas and application domains include complex power grid/smart grid modelled as a critical cyber-physical system (CPS). Industry participation has been a main ingredient in the success of CoE-CNDS. Larsen & Toubro (Electrical Automation) has established L&T –VJTI Innovation Centre with state-of-the art power electronics set-up. Siemens has supported the lab with software like PSSE, SINCAL for wide area monitoring systems WAMPAC. It is used for communication and data event monitoring using PMU, PDC. Entire Smart grid setup is raised in CoE-CNDS Lab for research. L&T InfoTech has established industrial IoT test-bed under corporate social responsibility (CSR) funding. Collaboration framework with CISCO regarding MPLS Testbed has been setup. Joint activities with industry driven research problems and industry mentor, joint publications and product development, conducting joint workshops and conferences, CoE-CNDS has formed industry advisory board which provides timely inputs on emerging industry trends.

CoE-CNDS is an academic partner for India Smart Grid Forum (IGSF), PPP of ministry of power, Gol and has contributed in forming various policies in reliability and security of power grid. It has also signed MoU with India Energy Storage Alliance (IESA) and CADC as a knowledge partner. It is working closely with industry bodies like IEEMA for conducting awareness programs for its stakeholders. MoU's has been signed with Siemens, CISCO, NVIDIA, I2EN-France, L&T, Claroty, Silicon Power Corporation, USA.

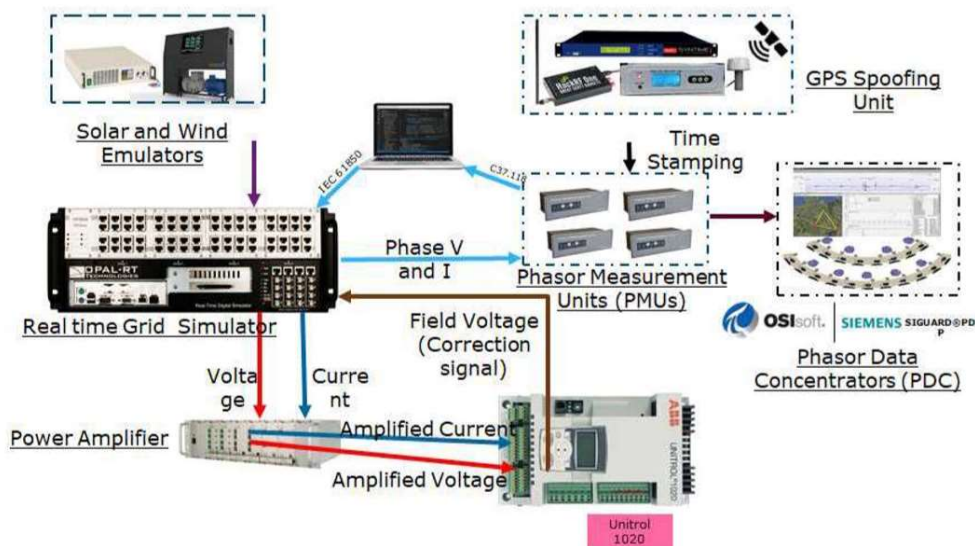


Students working under CoE-CNDS have participated and won many national/international hackathons and competitions which include global cyber challenge, Singapore-India hackathon, Smart India hackathon, global block chain congress and Tata Grand India IOT challenge. CoE-CNDS has published around 100 research papers in reputed international journals and conferences. It has received project funding from agencies like DRDO, BARC, ISRO and DST to work on different research projects.

Research scheme-cyber physical system (CPS) Research Test-beds

- Wide area measurements, protection & control (WAMPAC)
- Industrial internet of things (IIoT)
- Cyber security of industrial control system (ICS)
- Microgrid
- Deepfake, AI-ML

**WAMPAC Test-bed (Wide Area Measurement, Protection & Control)**



*WAMPAC Test-Bed (Wide Area Measurement Protection & Control)*



*WAMPACTest-bed Setup*



*CISCO-MPLS Test bed Setup and DGX  
Server for Deepfake, AI-ML*





*IloT Panel and WaterTreatment Plant Scale down model for ICS-SCADA Cyber Security*



*Test bed for ICS-SCADA Cyber Security*



*Power electronics in CoE-CNDS*



*AVITRA Humanoid Robot*



## CONFERENCES/ WORKSHOPS/ SYMPOSIA/ SEMINARS

Conferences, workshops, symposia and seminars on focus themes are vital academic activities that help stimulate discussions on different areas of importance. All of these activities invite participation from other organizations and enhance the Institute's visibility to the outside world. The following activities were organized during 2019-20:

### CONFERENCES

National Conference on Mathematics and its Applications in Technology was held on Feb 29<sup>th</sup>, 2020. The conference was hosted by VJTI Mathematics Department. It was organized by Dr. (Prof.) M. S. Panse, Convener and Coordinators: Prof. Nishigandha Kurhade, Dr. Trushit Patel, Dr. Pooja Singh, Dr. Divyesh Patel, Dr. Sachchida Nand Mishra (VJTI Mathematics Department).

The International Conference on Rehabilitation and Retrofitting of Structures (ICRRS19) was jointly organized by VJTI, BARC, ASTR, and DCSEM; held in BARC Mumbai, on June 24<sup>th</sup>-25<sup>th</sup>, 2019.

Two-day National Symposium organized by Department of Technical and Applied chemistry named "Smart Synthesis Techniques for Smart Materials & Their Application in Science and Engineering" sponsored by TEQIP -III at VJTI, from 4<sup>th</sup> January 2020 to 5<sup>th</sup> January 2020.



## WORKSHOPS

Two Days Workshop on “**Recent Trends in Terry Towel Processing**” (24<sup>th</sup>& 25<sup>th</sup> July 2019) was organized by Textile Department.

Two Days Workshop on “**Traditional Textile Heritage of India**” was held in collaboration with “**Paramparik Karigar**” on 28<sup>th</sup>-29<sup>th</sup> January 2020.

## SHORT TERM COURSES

One-Week Short term technical program (STTP) on “**Emerging trends on Smart and Sustainable Infrastructure**” by Dr. Bhawe P.P., VJTI, Mumbai, as a Resource person under TEQIP III sponsored Twinning activity between VJTI, Mumbai and GCOE, Ajmer Rajasthan at GCOE, Ajmer, 19<sup>th</sup>-23<sup>rd</sup>, August 2019.

One-Week Short term technical program (STTP) on “Emerging trends on Smart and Sustainable Infrastructure” by Dr. Wayal A.S., VJTI, Mumbai as a Chief Coordinator under TEQIP III sponsored Twinning activity between VJTI, Mumbai and GCOE, Ajmer Rajasthan at GCOE, Ajmer, 19<sup>th</sup>-23<sup>rd</sup>, August 2019.

One-Week Online Faculty Development Program (FDP) “Recent Advances in Civil Engineering” by Dr. Varekar V.B., VJTI, Mumbai as a Program Coordinator organized TEQIP III sponsored FDP, jointly organized by Civil & Environmental Engineering Department, VJTI, Mumbai and GCOE, Ajmer, Rajasthan, June 02<sup>nd</sup>-07<sup>th</sup>, 2020.

FDP was organized on “Perspective in Linear Control Systems” by CDRC, Electrical and Electronics Engineering Department, VJTI, from 7<sup>th</sup> to 12<sup>th</sup> Jan 2020.

FDP was organized on “Shifting Teaching Learning Paradigm Through Innovative Pedagogy” by Electrical and Electronics Engineering Department, VJTI, from 9<sup>th</sup> to 14<sup>th</sup> Dec 2019.

FDP was organized on “Recent Advances in Biomedical Signal and Image Processing” by Electrical and Electronics Engineering Department, VJTI, from 6<sup>th</sup> to 11<sup>th</sup> March 2020.

Training Programme on “Interactive English Language Speaking Skills Development” By Dr. Satyawan, K J Somaiya, Mumbai, Dr. Pandurang Barkale, SNDT University, Mumbai and Dr. Gajanan T. Hivale VJTI, Mumbai June 15<sup>th</sup>-19<sup>th</sup>, 2019.



Training Programme on “Interactive English Language Speaking Skills Development” By Dr. Geeta Ajit, VES College Chembur & Dr. Gajanan T. Hivale VJTI, Mumbai November 11<sup>th</sup>-22<sup>nd</sup>, 2019.



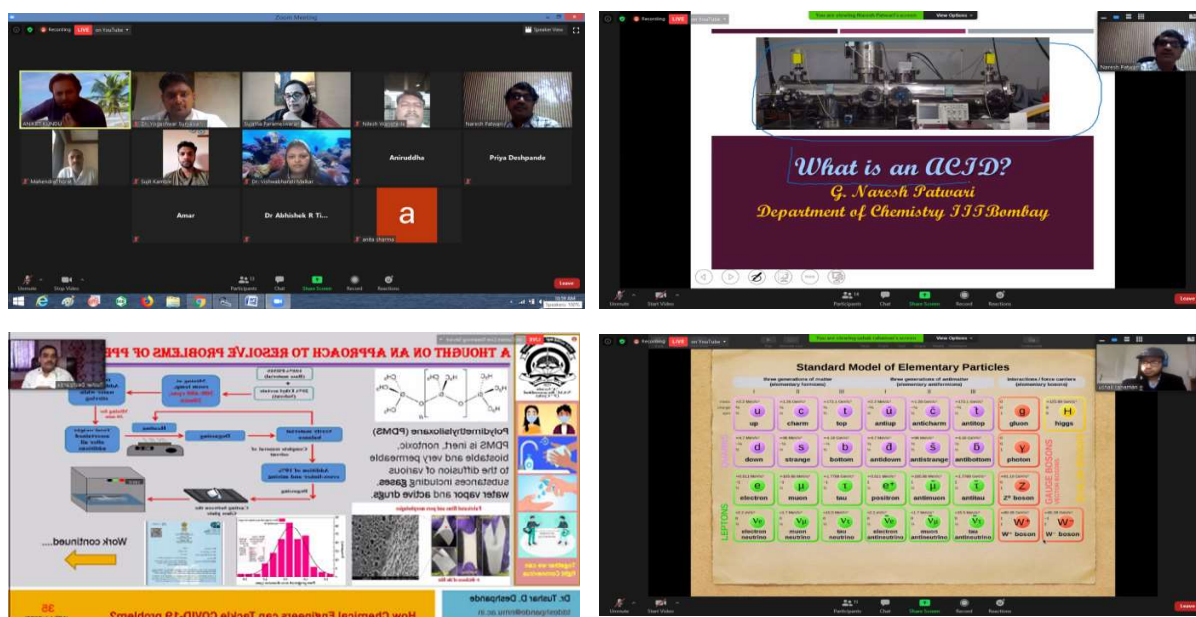
Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) Ministry of Human Resource Development (MHRD), New Delhi, Government of India Sponsored Faculty Development Programme (FDP) on “Advanced Data Analysis and Decision Making” (30<sup>th</sup> December, 2019- 03<sup>rd</sup> January, 2020). Coordinators: Dr. Prasad Karande, VJTI, Mumbai & Prof. Nikhil B. Khandare, VJTI, Mumbai.

Faculty Development program (FDP) on “Advances in smart manufacturing technologies (ASMT)” on December 30<sup>th</sup> 2019 to January 4<sup>th</sup>, 2020 in the Department of Production Engineering by Dr. D N Raut in collaboration with GEC Ajmer and GEC Gaya.

Faculty Development program (FDP) on “Advanced Data Analysis and Decision Making” was organized on 30<sup>th</sup> December 2019 to 3<sup>rd</sup> January, 2020 at VJTI, Mumbai by Dr. Gunajan Yadav with GEC Ajmer and GEC Gaya.

Two-day National webinar named “Combating the Covid–19 Crisis together” was organized on 11<sup>th</sup> June 2020- 12<sup>th</sup> June 2020 by the Department of Technical and Applied Chemistry.

One-Day National webinar named "Fundamentals of Acid and Particles" was organized on 25<sup>th</sup> June 2020 by the Department of Technical and Applied Chemistry.



Photographs of Webinars during Pandemic



Half day conclave on **Manufacturing Opportunities & Challenges for Sportswear & Active Wear Industry** in India with Unified Knowledge Services Pvt. Ltd. (UKS) and VJTI as knowledge partner was held on January 31, 2020.

TEQIP-III sponsored one week Faculty Development Programme on **“Characterization and Analysis of Materials”** was organized by Textile Department on 23<sup>rd</sup>-28<sup>th</sup> December 2019.

## GUEST LECTURES

**Mr. Niranjan Ganorkar**, Former Deputy General Manager, Jacobs and presently freelance consultant, pipelines with extensive experience in projects having scope of underground pipe laying system for oil and gas, visited Civil & Env. Engg, Department on 13<sup>th</sup> November 2019 and delivered a talk on **“Case study of onshore Pipelines, Environmental Impact Assessment”**.



Niranjan Ganorkar and Dr. A.S. Wayal during a seminar on Environmental Impact Assessment and Audit on 13<sup>th</sup> November 2019, Venue-Project Laboratory, Civil & Env. Engg Dept., VJTI, Mumbai.

**Mr. Shrikant Kshirsagar**, founder of Yoga Sanjeevani, visited Civil & Env. Engg. Department on 13<sup>th</sup> March 2020 and delivered a talk on “**Energizing Body and Mind**”.



*DCE students during the Energizing Body & Mind session by Mr. S. Kshirsagar*

*13<sup>th</sup> March 2020*

**Mr. Sanjeev Raje**, Vice President Navdeep Construction Company visited Civil & Env. Engg. Department on 14<sup>th</sup> August 2019 and delivered a talk on “**Advances in Concrete Technology**”.



*Mr. Sanjeev Raje delivered expert lecture on Advances in Concrete Technology for V DCE class at VJTI, Mumbai, on 14<sup>th</sup> August 2019.*

Dr. Ambrish Bhatt delivered a talk on “Assertive Behaviour”, to FY MCA students, SEM II on 28 January 2019.

Prof. Dwaipayan Mukherjee, Assistant professor, Electrical engineering, IIT Bombay visited the institute on Feb 12th, 2020 and delivered a talk on Control Theory.

Chetan Dighe, Director, Technology at Moment Infotech Private Limited, Girish Kandalkar, Founder, EIX Business Solutions Pty Ltd, Australia and Akshay Dhillon, VJTI alumnus delivered a webinar titled ‘Interview Workout’ conducted on Friday, 26th June 2020.

Mr. Vikash Kumar, Chief Marketing Officer, Blocklogy delivered a guest lecture and one-day Hands-on Session on Blockchain Technology was conducted on Saturday, 21st March 2020.

Mr. Vinay Kumar, Technical Manager at Madura Coats, India delivered a guest lecture on “Recent Developments in Thread Technology for Garment Manufacturing”, on 10th June 2020.

Mr. Shrilesh Trilokekar, Former Lead Trainer at Karl Mayer Academy India delivered a guest lecture on “Warp Knitting Technology”, on 6th April 2020.

Mr. Vikas Sharan, Former, Director, M/s. Saurer India delivered a guest lecture on “Indian Textile Industry”, on 11th March 2020.

Mr. Farokh Sidhva, Ex-corporate Head at L&T delivered a guest lecture on “Cracking the Selection Process”, on 23<sup>rd</sup> November 2019.

Mr. Siddharth Gupta, Business Manager at Barnet, India delivered a guest lecture on “Technical Textiles & and its value chain business in different geographical locations including US, Europe, Asia”, on 8th November 2019.

## GIAN COURSE

GIAN Course on “**Nanotechnology Advances and Challenges in Engineering Materials and Manufacturing**” was held in VJTI, Mumbai by faculty coordinator **Dr. Dattaji K. Shinde** and Foreign resource faculty **Dr. Ajit Kelkar**, Chairperson and Professor of Nanoengineering, Joint School of Nanoscience and Nanoengineering, North Carolina A and T State University USA during 8<sup>th</sup>-13<sup>th</sup>July 2019 and the total expense of the program was Rs.6,52,000.



# Faculty activities

## RESEARCH PROJECTS

### CIVIL AND ENVIRONMENTAL ENGINEERING DEPARTMENT

- “Ground improvement of dune sand fields for water harvesting and moisture retention” Department of Science and Technology, Govt. of India (DST) sponsored Research project, in collaboration with GRAVIS, Principal Investigator: Dr. Wayal A.S. at Jodhpur during Dec 2012 to Nov 2014, Sanctioned amount Rs. 21.4 lakhs (Completed).
- Research in Environment engineering, project sponsored by MPCB, Principal investigator: Dr. P. P. Bhave, CEED, VJTI, with a Sanctioned amount of Rs. 52.00 lakhs (completed 2012 -2017).
- “Modernization of Transportation Engineering Lab” sponsored by AICTE MODROBS: Prepared by Dr. A.S. Wayal, Dr. Mhaske S Y and Mr. Bhole C.R. Sanctioned amount was Rs. 12.95 lakhs, completed in 2017-18.
- “Field Modelling and Experimentation for Efficiency Improvement of Plumbing Fixtures and Water Supply Networks” sponsored by Industry Dhruv Infrastructure, Principal investigator: Dr. Wayal A.S. Sanctioned amount Rs. 11.14 Lakh. (On going 2017-2020)
- “Modernization of Surveying Laboratory” sponsored by AICTE MODROBS: Prepared by Dr. A.S. Wayal, Dr. Mhaske S Y and Mr. Bhole C.R. Sanctioned amount was Rs. 10.9 lakhs, completed 2019-20.
- “Design of Water Distribution Network and Water Quality Analysis by using various Optimization Techniques under deficit conditions” sponsored by AICTE Principal

investigator: Dr. Wayal A.S. Sanctioned amount Rs. 15.88 Lakhs (On going, 2018-2021)

## **COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY DEPARTMENT**

- “Distributed Centre of Excellence for Block chain Technology” sponsored by MeiTY, Govt. of India, Principal Investigator: Dr. D R Patel. Sanctioned Amount Rs. 94 Lakhs
- “An Advanced Framework for Hidden Link Analysis and Trust Management” sponsored by DRDO, Government of India Principal Investigator: Dr. D R Patel, Sanctioned Amount Rs. 71.29 Lakhs
- “Centre of Excellence in AI” sponsored by Government of Maharashtra, Principal Investigator: Dr. S. G. Bhirud. Sanctioned Amount Rs. 5 Crore
- “Machine Intelligence and analytical pipeline for social network analysis” sponsored by AICTE, Principal Investigator: Dr. S. G. Bhirud, Sanctioned Amount Rs 11.76 Lakhs
- “Faculty Development Centre on Spatial and Graph Databases Data Modelling, Designing and query processing” Sponsored by MHRD, Principal Investigator: Dr. V B Nikam. Sanctioned Amount Rs 5.38 Crore (VJTI Share=45% of total cost jointly with Dr. BATU, Lonere)

## **ELECTRICAL ENGINEERING DEPARTMENT**

- “Opal-RT Real-time Simulator for Complex System Analysis and Control”, Sponsored by Opal-RT, Principal investigator: Prof. Navdeep M. Singh and Prof. S. R. Wagh, Sanctioned amount: 20 Lacs INR.
- “Typhoon Real-time Simulator for Integration of Microgrids”, Project Sponsored by Typhoon, Principal investigator: Prof. Navdeep M. Singh and Prof. S. R. Wagh, Sanctioned amount: 35 Lacs INR

## MECHANICAL ENGINEERING DEPARTMENT

- Experimental and Numerical Investigation of Shock Wave Propagation at Micro-scales Sponsored by AICTE (RPS-NDF Scheme), Principal Investigator: Dr.A. V. Deshpande, Sanctioned Amount Rs. 24 Lakhs
- Project title: Numerical Analysis & Experimental Investigation of Single Pass Solar Photovoltaic Thermal System Using Compound Parabolic Collector, Project Sponsored by: Dr. BabasahebAmbedkar Research & Training Institute, Pune No./BARTI/Research section /BANRF - 2015-16, 16-17, 17-18 /2567 Principal Investigator: Dr. N. P. Gulhane, Sanctioned Amount: 16.5 lac.
- Experimental Investigation and Performance Analysis of a Single Pass Solar Photovoltaic Thermal (PVT) System using Compound Parabolic Collector (CPC), Project Sponsored by AICTE under RPS 2015-17 AICTE (RPS) No. 8-208/RIFD/RPS/Policy-1/2014-15 Principal Investigator: Dr. N. P. Gulhane, Sanctioned Amount: 17.82 lac.
- Experimental Investigation of PV Cell Cooling Project sponsored by AICTE-RPS UNDER NDF No: 8-27/RIFD/RPS-NDF/Policy-1/2018-1 March 2019. Principal Investigator: Dr. N. P. Gulhane, Sanctioned Amount: 20.00 Lacs.
- Experimental and CFD performance analysis of hydrodynamic cylindrical /conical journal bearing project sponsored by AICTE (RPS Grant), Principal investigator: Dr. V. M. Phalle, Department of Mechanical Engineering, VJTI- Matunga, Sanctioned amount Rs. 22.69 lakhs
- Antifriction bearing project sponsored by TEQIP-II, Principal investigator: Dr. V. M. Phalle, Department of Mechanical Engineering, VJTI- Matunga, Sanctioned amount Rs. 1.5 lakhs
- Investment Casting project sponsored by TEQIP-II, Principal investigator: Dr. V. M. Phalle, Department of Mechanical Engineering, VJTI- Matunga, Sanctioned amount Rs. 4.5 lakhs
- Development and Modeling of Micro Electrical Discharge Machining for Fabrication of Micro Textured Surfaces for Tribological and Machining Applications project

sponsored by Department of Science and Technology (DST) under Young Scientist Research Grant 2015 Principal investigator: Prof S. A, Mastud, Mechanical Engineering, VJTI Mumbai, Sanctioned amount Rs. 23.50 lakhs

### TEXTILE MANUFACTURING DEPARTMENT

- Development of High-End Bolting Cloth for Specialty Application, AICTE project sponsored by MHRD, Principal investigator, Dr. A. K. Rakshit, Textile Manufactures Department, VJTI, Sanctioned amount Rs 23.38 lakhs
- Development and Characterization of Conductive Textile Substrate, World Bank, TEQIP II project, Principal investigator, Dr. A. K. Rakshit, Textile Manufactures Department, VJTI, Sanctioned amount Rs 3.25lakhs
- Utility of Natural and Recycled Fibers for Construction Engineering Applications, project sponsored by World Bank, TEQIP II, Principal investigator, Dr. V.D. Gotmare, Textile Manufactures Department, VJTI, Sanctioned amount Rs. 0.75 lakhs
- Development of Sport Textile Products using Coated and Laminated Technology, project sponsored by World Bank, TEQIP II, Principal investigator, Dr. V.D. Gotmare, Textile Manufactures Department, VJTI, Sanctioned amount Rs. 1.05 lakhs
- Development of Mosquito Repellent Textiles, *INN project* in association with ICT, Mumbai under TEQIP-II, Principal investigator, Dr. V.D. Gotmare, Sanctioned amount Rs 15.40 lakhs
- Develop and evaluate the performance of agro textile products for the protection and water conservation techniques to enhance the yield of crops during extreme weather conditions in Vidarbha region, Sponsored by: Department of Science and Technology (DST), Ministry of Science and Technology, Government of India (KIRAN DIVISION). Faculty Mentor: Dr. D. V. Raisinghani, Principal Investigator: Ms. Swati. C. Chaudhari, Sanctioned Amount: Rs. 29,15,660/-



## TECHNICAL AND APPLIED CHEMISTRY

- Microwave and Conventional Multi component Reactions by C-H Activation Substrate Scope & Reactivity, NPIU sponsored Research project under TEQIP Collaborative Research Scheme. Principal Investigator: Dr. Vitthalrao Kashid, Gaya College of Engineering. Co-Principal Investigators: Dr. Ajit Kumar Singh, IIT, Mumbai, Dr. Sujatha P, Technical and Applied Chemistry Department.
- Dr. Sujatha P & Dr. Yogeswar Suryawanshi, Technical and Applied Chemistry Department, guided MSc Research Project: Novel Synthesis of Mesoporous and Cornshell Alumina by Hydrothermal Technique, for MSc Environmental Science students from Institute of Science & Technology for Advanced Studies & Research (ISTAR), Ahmadabad.

## CONSULTANCY PROJECTS

### CIVIL AND ENVIRONMENTAL ENGINEERING DEPARTMENT

- Structural stability of MCGM's R South Ward Office Building at M.G. Cross Road No.2, Kandivali (W) for construction of additional two floors over existing building, for Chief Engineer Building Maintenance Office, Municipal Corporation of Greater Mumbai, Principal investigators: Dr. A.S. Wayal and Dr. S.S. Pendhari. Revenue earned Rs. 4.00 lakhs.
- Nala Covering with RCC Slab & impact assessment along Plot No.29, Sector 01, Kalamboli, Navi Mumbai for Grant of additional FSI (Structural & Feasibility proposal), for Secretary Board of Management, KLE Society, Belagvi. Principal investigators Dr. A.S. Wayal and Dr. S.S. Pendhari, Revenue earned Rs. 1.60 lakhs.
- Structural Audit of Major Culvert on Taloja Feeder Road. For Executive Engineer MIDC, Div, Dombivali (MIDC). Principal investigators Dr. A.S. Wayal and Dr. S.S. Pendhari. Revenue earned Rs. 3.30 lakhs.
- Structural Audit of Main Polytechnic Building area of M.H. Saboo Siddik Polytechnic, Byculla for The Principal, M.H. Saboo Siddik Polytechnic, Byculla, Principal investigators Dr. A.S. Wayal and Dr. S.S. Pendhari, Revenue earned Rs. 2.53 lakhs

- Extended MUIP, Constriction & Widening of Badapur-Karjat Chowk, Karjat-Hal Road, for MMRDA, BKC, Bandra (E), Mumbai-51. Principal investigator Dr.A.S.Wayal, Dr. S.Y.Mhaske, Prof. C.R.Bhole, and Revenue earned Rs.21 lakhs.
- Technical audit for the work strengthening of the road and providing footpath toroad from Utterkar Chowk to "F" cabin to Kalyan (E), for Kalyan Dombivili Municipal Corporation, Principal investigator Dr.A.S.Wayal, Revenue earned Rs.1.40 lakhs.
- BOQ as per structural Audit report, For Secretary, Institute for Design of Electrical Measuring Instruments, Sion, Principal investigator Dr. V B Varekar, and Revenue earned Rs.1.00 lakh.
- Structural Audit of Buildings under the PWD Division Panvel for ITI Building, Principal investigator Dr.A.S.Wayal and Dr.S.S.Pendhari, Revenue earned Rs. 10.05 lakhs.
- Quality audit of General Civil work of the Rehabilitation building constructedby sub. M/s. SPARC SNS developer under slum rehabilitation scheme at village-Goregaon at Oshiwara District Centre, For MMRDA, Mumbai-51, Principal Investigators Dr.A.S.Wayal and Dr.S.S.Pendhari.Revenue earned Rs.11.25lakhs.
- Patalganga Industrial Area structural Audit of the Bridge across Patalgana River, for MIDC, Patalganga. Principal investigators Dr. A.S. Wayal and Dr. S.S. Pendhari, Revenue earned Rs.4.72 lakhs.
- Structural audit of building for Ganesh Krupa CHS Ltd., Panvel For Ganesh Krupa CHS Ltd. Panvel, Principal investigator Dr. A.S. Wayal and Dr. S.S. Pendhari. Revenue earned Rs.2.50 lakhs.
- Vetting of the work of design supply and commissioning of Charkop sewage treatment plant, for Naik Env. Engg., MIDC, Khairane, Principal investigator Dr. Bhave P.P., Revenue earned Rs.0.90 lakhs.
- Water quality monitoring and identification of cause of pollution, forSTEMPrincipalinvestigator Dr. Varekar V.B. Revenue earned Rs. 0.85 lakhs.
- Project consultancy of Proof checking of Design of MLD STP, for M/s. Naik Deputy Chief Engg. Planning & Const. Principal investigator Dr. Bhave P.P and Dr. Varekar V.B. Revenue earned Rs. 1.5 lakhs

- Structural audit of building consisting of 1 basement & Ground + 4 upper floors on plot no.254-C of scheme no.52, Worli Estate, Lane bearing C.S.No.2/1680 of Lower Parel Div. Prabhadevi, Mumbai-30, for P.E. Mannisps, Principal investigator Dr.A.S. Wayal and Dr.S.S. Pendhari, Revenue earned Rs. 12 lakhs
- Structural Audit of School Building Rambaug, Kalyan for Hon. Secretary, The South Indian Association, Khadakpada, Kalyan (West)- 421301 Dist-Thane. Principal investigators Dr. Wayal A.S. Revenue earned Rs. 1.00 lakh.
- Structural Audit of Building AA1 & AA2 at KendriyaVihar (2) CHS Ltd. Sector-II, Kharghar for Administration Officer, KendriyaVihar (2), CHS Ltd., Navi Mumbai-410210, Principal investigator Dr. Wayal A.S. Revenue earned Rs. 1.00 lakh.
- Structural Audit of Building of Jhunagar CHS, Sector 15, Vashi for Chairman / Secretary, Jhunagar CHS Plot No. 35,36 & 37 Sector 15, Vashi, Navi Mumbai-400703, Principal investigator Dr. Wayal A.S. Revenue earned Rs. 1.80 lakhs
- Structural Audit of distressed Nonresidential building ESIS Hospital main building and its premises Type I,II ,IV & house man quarter building at Worli, Mumbai- 400018 for Executive Engineer ,Central Mumbai Public Works Division, Worli, Mumbai - 400018. Principal investigator Dr. Wayal A.S. Revenue earned Rs. 15.11 lakhs.
- Structural Audit of GST Bhavan, New building at Mazgaon, Mumbai for A.S. Saje associates & Eagle Infra Joint Venture Principal investigator Dr. Wayal A.S.and Dr. Pendhari S.S. Revenue earned Rs. 9.00 lakhs.
- The Civil Engineering Department carried out Technical Testing Assignments and earnedrevenueof Rs. 24.56 lakhs.

## **COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY DEPARTMENT**

- Technical Verification of IT resources, Sponsored by Zilla Parishad Thane, Principal Investigator: Dr M M Chandane. Revenue earned: Rs. 25000/-

- Verification and Testing of Submitted Digital Unit used for Smart Classrooms in ZillaParishad Schools, Vetting of GIS Based Outdoor Media Licensing System Sponsored by ZillaParishad Thane, R3 Interactive Media Solutions Pvt Ltd, Ahmadabad. Principal Investigator: Dr V B Nikam. Revenue earned Rs. 1,00,000/-
- Vetting of GIS Based Outdoor Media Licensing System, Sponsored by R3 Interactive Media Solutions Pvt Ltd, Ahmadabad. Principle Investigator: Dr V B Nikam. Revenue earned Rs 3,54,000/-
- Pattern Analysis & Knowledge Discovery in e-Learning platform using Data Mining & Big Data Framework, Sponsored by: TEQIP Collaborative Research Scheme, Principal Investigator: Mr. Satish Kumar Ray (Govt. Engineering College, Ajmer) Co-PI: Prof. V. D. Dhore (VJTI Mumbai). Sanctioned Amount: Rs10,13,000/-

### **ELECTRICAL ENGINEERING DEPARTMENT**

- Control Algorithms for Power Converters sponsored by L&T, Principal investigator: Prof. Navdeep M. Singh, Revenue earned: 15 Lacs INR
- Special Courses on Power Electronics for Engineers of Central Railway, Prof. Navdeep M. Singh and Prof. S. R. Wagh, Central Railway, 3 Lacs INR.
- Predictive analysis for transformer health monitoring, Principal investigator: Prof. Navdeep M. Singh and Prof. S. R. Wagh, Sanctioned amount: 4 Lacs INR
- Verification and checking of Electrical drawings for EPC Contract of SEZ Phase-1 JNPT area, Prof. Navdeep M. Singh and Prof. S. R. Wagh, Nemast Electricals, 4 Lacs INR
- Relay testing, Ashida Electronics Private Limited, Principal investigator: Prof. S. R. Wagh and Prof. N. M Singh, Sanctioned amount: 2 Lacs INR
- Electric Vehicle charging station design, Principal investigator: Prof. S. R. Wagh and Prof. N. M Singh, Sanctioned amount: 4 Lacs INR

### **MCA**

- Memorandum of Understanding between VJTI and TheMotwane Manufacturing Company Private Limited and Testdata Technologies Private Limited. Principal

Investigator: Dr. Anala Pandit, Department of MCA, VJTI. Revenue Earned: Rs. 14,00,000/- (Fourteen lakhs)

### **MECHANICAL ENGINEERING DEPARTMENT**

- Testing of spray Nozzles, pipes, V-notches, pitot tube etc. Sponsored by Marine Hydraulics, SU Motors, Mumbai Port Trust, B.G. Shirke etc., Principle Investigator: Dr. A. V. Deshpande, Revenue earned Rs. 4 Lakhs
- Vetting of structural design of fire screen for HPCL Unnao UP Sponsored by : Adore Welding Pune, Principle Investigator: Dr. N. P. Gulhane, Oct. 2018, Revenue earned: 4 lacs
- Vetting of the design of PNG furnace, its allied pollution control system for MCGM Sponsored by: MCGM Mumbai, Principal Investigator: Dr. N. P. Gulhane, Jan. 2018 Revenue earned: 3.2 lacs
- Aero fuel carrying trailer for Airport, Sponsored by: Anthony Motors Ltd Navi Mumbai, Principal Investigator: Dr. N. P. Gulhane, Sept. 2018 & Oct. 2019. Revenue earned: 1.2 lacs
- Approval of stability calculation for PIT cleaning cum QC unit on EICHER 10.80 Chassis, Sponsored by: M/s IPWT Corporation Govandi (w), Mumbai, Principle Investigator: Dr. V. M. Phalle, Department of Mechanical Engineering, VJTI-Matunga, Revenue earned: Rs. 0.33 lakhs
- SITC for Replacement of 230 TR Chiller, Air Handling Unit and Cooling Tower along with Chilled Water and Condenser Pipeline in AC Plant at Doordarshan Kendra Mumbai (2017-18), Sponsored by: PrasarBharati, Doordarshan Kendra, Mumbai, Principle Investigator: Dr. M. V. Tendolkar, Revenue earned: Rs. 2 Lakh
- SITC of 230 TR Chiller in AC Plant at Doordarshan Kendra Mumbai (2016) Sponsored by: PrasarBharati, Doordarshan Kendra, Mumbai, Principle Investigator: Dr. M. V. Tendolkar, Revenue earned: Rs. 0.80 Lakh

### **PRODUCTION ENGINEERING**



- Dr. D.N. Raut carried out a consultancy project on “Capacity Refuse Compactor” and a Third-Party Inspection, which were sponsored by Panvel Municipal Corporation. Revenue earned was 6.17 lakh and 1.79 lakh respectively.
- Dr. D.K Shinde carried out Testing of Composite Materials, Dimension Verification and Composite Analysis for various organizations and earned 11.28 lakhs, 0.93 lakhs and 1.55 lakh respectively.

### **STRUCTURAL ENGINEERING DEPARTMENT**

Structural Engineering department carries out maximum consultancy assignments. Faculties involved are Dr. M A Chakrabarti, Dr. A N Bambole, Dr. K K Sangle, Dr. V B Deshmukh, Dr. S S Pedhari, Prof. J G Solanki, Dr. P W Kubde. The department carried out one hundred and eleven numbers of Structural Audit Assignments, revenue earned Rs .419.32 lakhs. The department carried out sixty three numbers of proof checking assignments, revenue earned Rs. 262.28 lakhs. The department carried out three hundred and eighty five technical material testing assignments, revenue earned Rs. 58.64 lakhs.

### **TEXTILE MANUFACTURING DEPARTMENT**

- “Training on Eco safeguards KVIC”, 19<sup>th</sup>& 20<sup>th</sup> June 2016. Sponsored by: KVIC, Ministry of MSME, GOI. Principle Investigator: Dr. V.D. Gotmare. Revenue earned: 0.78,652 Lakhs
- “Training on Technical Textiles”, July 2016. Sponsored by: Garware Wall Ropes Pvt.Ltd. Principal Investigator: Dr.A.K. Rakshit. Revenue earned: 1, 04,500. /-
- Practical experiments for their A.M.I.E. students, 2014-2020. Sponsored by: Institution of Engineers (IEI-India). Principle Investigator: Dr.D.V. Raisinghani. Revenue earned: Rs.1.2 Lakhs
- “Collaborative training program on Computer Aided Textile Designing” with Wonder Weaves Systems (Dec 2017). Principle Investigator/ Coordinator: Dr. D. V. Raisinghani. Revenue earned: Rs. 0.25 Lakhs

- Twoday Certificate course for M/s. THREADS AND COLOURS TEXTILES CONFEDERATION, SOLAPUR (July 2019). Principle Investigator: Dr.D.P. Kakad. Revenue earned: Rs. 1.0 Lakhs

### **TECHNICAL AND APPLIED CHEMISTRY**

- “Quality Assurance of Materials: Bitumen, Mastic, Lime Stone And APP Membrane”. Sponsored by: Laybond Construction Pvt. Ltd. Principal Investigators: Dr. Sujatha P, Dr. N. N. Wankhede. Revenue earned: 3,00,000/-
- “Quality Assurance of Materials Textile, Polymeric, PVC material”. Sponsored by G. S. N. Associates. Principle Investigators: Dr. Sujatha P, Dr. N.N. Wankhede. Revenue earned: 5,00,000/-
- “Quality Assurance of materials: Epoxy Paints, CPCC Chemicals and CPCC rods”. Sponsored by: Mahavir Chemicals. Principle Investigator: Dr. Sujatha P, Dr. N. Wankhede. Revenue earned: 5,00,000/-
- “Preparation of Adequacy Report of Zero Liquid discharge System of Dye Intermediate Manufacturing plant”. Sponsored by: Vivid Global Pvt Ltd. Principal Investigator: Dr. Sujatha P. Revenue Earned: 2,00,000/-
- Technical and Applied Chemistry Department also earned 25lakhs Rupees by doing Technical Testing for various Government, Semi-Government. Organizations, Municipal Corporations, CPWD, Public & Private Institutions.

## AWARDS AND RECOGNITION

- Prof. Pramila M. Chawan, is selected for 'Innovative & Dedicated Educationalist Award Specialization: Computer Engg. & I.T.' by The Society of Innovative Educationalist & Scientific Research Professional Chennai, India (Accredited with Innovative Scientific Research Professional Malaysia Sdn.Bhd).
- Prof. Pramila M. Chawan, is elected as Fellow (FSIESRP) by the Governing Council of The Society of Innovative Educationalist & Scientific Research Professional
- Prof. P. M. Chawan is Research Gate Weekly Topper of VJTI - Topper in 50 weeks (From 1st April 2019 to 31st March 2020) – for the most read publications from the Institute (VJTI) and the Department (CE&IT Dept).
- Dr.V.D. Gotmare, received Honorary Fellow of Textile Association of India Award at 4<sup>th</sup> International & 72<sup>nd</sup> All India Textile Conference held at Bhopal, on 27<sup>th</sup> - 28<sup>th</sup> January 2018.
- Dr.V.D. Gotmare received the ITAMMA-Jury Award for Academic and Research Contribution, Jan 2019.
- Dr. Neha Mehra- Overall Best Presenter Award in the 6<sup>th</sup> International Conference on Nano Science & Nanotechnology-December 2019.
- Dr. Suranjana Gangopadhyay received the ITAMMA-Jury Award for Academic and Research Contribution, Jan 2020.
- Dr. Yogeshwar R. Suryawanshi was selected as External mentor for CSIR-SRTP-2020 in CSIR-NEIST, Assam, India. (Mentored six students under CSIR programme)
- Dr. Yogeshwar R. Suryawanshi was selected as Young Scientific Leader for Virtual Internship Programme with Central University of Punjab (MHRD), India
- Dr. Yogeshwar R. Suryawanshi was awarded Life membership by society for Technologically Advanced Materials (STAMI), India. Membership ID: LM-CS-0757

- Dr. Yogeshwar R. Suryawanshi was awarded Moderator award at “5th Edition of Global Conference on Catalysis, Chemical Engineering and Technology (CAT-2019)”, during 16th to 18th September 2019 at Radisson Conference Centre Bath Road, Heathrow, Middlesex, London, UK.
- Dr. Yogeshwar R. Suryawanshi was selected for Training Programme on “Solar Off-grid Entrepreneurship” in National Centre for Photovoltaic Research & Education (NCPRE), MNRE Govt. of India at IITB (Not Conducted and given online due to lockdown)
- Prof. Dr. Solanki Jaydeepsingh G. has completed his Ph.D. (Civil Engg with specialisation in Structural Engg.) at IIT Bombay, in Nov. 2019, under supervision of Dr. Siddhartha Ghosh, Civil Engg. Dept. IIT Bombay. Ph.D. Thesis Title is “Statistical Characterisation of Expanded Metal Mesh subjected to In plane Force”.
- Mr. Vineeth R was awarded Doctorate in English Literature by Mumbai University, Mumbai.
- Dr. D.K. Shinde appointed as Reviewer of Elsevier’s the European Polymer Journal from May 2019
- Dr. D.K. Shinde appointed as Reviewer of Elsevier’s the Journal of the Optics and Laser technology from May 2019
- Dr. D.K. Shinde appointed as Reviewer of WASET International Journals for Nanocomposite and Nanomaterials
- Dr. D.K. Shinde received The Best Start-up Award by World Trade Centre Mumbai and Chamber of Commerce and Industry on March 2<sup>nd</sup>, 2019 in the International Conference on Business and Start-up at D Y Patil University Mumbai.
- Dr. D.K. Shinde received The Best Dronacharya Award for Mentoring Innovation Product for Smart Navigation Band at national level Entrepreneur Competition Organized by Jaro Education Mumbai on 29<sup>th</sup> of Jan 2019.

## **ACADEMIC LECTURES /KEYNOTES /VISITING LECTURESHIP**

### **(DELIVERED OUTSIDE VJTI)**

- Dr. Bhave P.P. delivered an invited talk at TEQIP III sponsored one-week online Faculty Development Programme (FDP) entitled "Recent Advances in Civil Engineering" jointly organized by Civil & Environmental Engineering Department, VJTI, Mumbai and Government College of Engineering, Ajmer, Rajasthan on June 02-07, 2020.
- Dr. Varekar V.B. delivered an Expert Lecture of "Surface Water Quality Monitoring Network" organised at Department of Civil Engineering, Saraswati College of Engineering Kharghar (SCOE), an ISTE approved One Week Short Term Training Program on "Sustainable Development: Technological Advancement & Challenges" from 16th December 2019 to 20th December 2019.
- Dr. Varekar V.B delivered an Expert Lecture entitled " Sustainable Water Quality Management Practices" at TEQIP III sponsored one-week online Faculty Development Programme (FDP) entitled "Recent Advances in Civil Engineering" jointly organized by Civil & Environmental Engineering Department, VJTI, Mumbai and Government College of Engineering, Ajmer, Rajasthan. June 02-07, 2020
- Dr. Wayal A. S. delivered Expert talk through webinar "Preparing for Criterion 3& 4, in NBA Process" in online IETE West Zone Seminar on "Outcome Based Education (OBE)" organized by IETE Navi Mumbai centre, supported by IETE HQ, New Delhi, on June 19-20, 2020,
- Dr. Wayal A. S delivered Expert talk through webinar "Water Management, Issues and Remedies: Case Studies" during TEQIP III sponsored one-week online Faculty Development Programme (FDP) entitled "Recent Advances in Civil Engineering" June 02-07, 2020 jointly organized by Civil & Environmental Engineering Department, VJTI, Mumbai and Government College of Engineering, Ajmer, Rajasthan, on 6<sup>th</sup> June, 2020.



- Dr. Wayal A. S. conducted Workshop on “Outcome Based Education” at SIES Graduate School of Technology, Nerul, Navi Mumbai, on 23<sup>rd</sup> December 2019.
- Dr. Wayal A. S delivered Expert lecture on “Innovative Technologies for Sustainable Water Resources Management” organized under TEQIP III , sponsored by MHRD, at VJTI, Mumbai during Faculty Development Program (FDP) on 13<sup>th</sup> June 2019
- Prof. S. S. Suratkar Delivered a talk on Cyber Security at BATU Lonere under TEQIP-III on October 23, 2020.
- Dr.V.D. Gotmare- Delivered ‘Expert Lecture’ on ‘Recycling of Technical Textiles’ at Techtextile International Conference 2019 on 21-11-2019.
- Dr. Sachin S Naik delivered an invited talk on “Dynamics Finite Element Analysis of Structural Dynamics Problems”, Short Term Training Program on Finite Element Method and its Engineering Applications at Ballarpur Institute of Technology (BIT), Ballarpur, MS, March 02-06, 2020.
- Dr. Sachin S Naik (2 sessions of 1.5 hrs each) on Application of Vibrations in Automobile Engineering and Experimental and Numerical Modal Analysis in a One Week MSBTE sponsored Faculty Development Program on Emerging Trends in Automotive Technology, Department of Mechanical Engineering, VJTI Mumbai, 13-17 Jan, 2020.
- Dr. Yogeshwar R. Suryawanshi delivered lecture on “Challenges in Catalysis: Their Reactions and Diverse Applications” at K.K. Wagh Institute Of Engineering Education & Research – (KKWIEER), Nashik, Maharashtra, 27 August 2020
- Dr. Yogeshwar R. Suryawanshi delivered lecture on “Challenges in Catalysis: Their Reactions and Diverse Applications” at Department of Industrial Chemistry, Shree M and N Virani Science College (Autonomous) & Atmiya University, Rajkot, Gujarat, 15 October 2020
- Dr. Yogeshwar R. Suryawanshi delivered lecture on "Hydrogenation of Dibenzo-18-crown-6 ether using  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> supported Ru-Pd and Ru-Ni bimetallic nanoalloy

catalysts" at "5th Edition of Global Conference on Catalysis, Chemical Engineering and Technology (CAT-2019)", 16-18 September, 2020

- Dr. N N Wankhede delivered lecture on "Organic Chemistry and its application in Petroleum Products" at Army Officers Training Program APTAM-32,33 and 34 at IOCL Bandra Mumbai, March and August 2019
- Prof. M.S. Thorat delivered lecture on "Basic Chemistry, corrosion and its application in Petroleum Products" at Army Officers Training Program APTAM-32,33 and 34 at IOCL Bandra Mumbai, March 2019
- Prof.V B Deshmukh delivered an invited talk on 21<sup>st</sup> July 2019 at a Community Awareness Program organized by Rotary Club Thane, about Hazardous Buildings.
- Dr. Anala Pandit was invited to be the keynote speaker at the "International Conference on Intelligent Computing and Smart Communication" (ICSC 2019) organized by THDC- Institute of Hydropower Engineering and Technology, Tehri, Uttarakhand from 19-21 April 2019 at THDC IHET, Tehri.
- Dr. Anala Pandit received the certificate for her valuable contribution as technical speaker in the online webinar titled "Machine Learning and Big Data Analytics" held between 3-5 September 2020, organized by Department Of Computer Science & Engineering, THDC-IHET, Tehri Garhwal, Uttarakhand.
- Dr. Gajanan T. Hivale delivered an invited talk on Cracking the Selection Process at PVPIT, Sangli on May 24, 2020.
- Dr. Gajanan T. Hivale delivered an invited talk on Interview Skills at College of Engineering & Information Technology, Jalgaon on 31 October, 2020.
- Dr. Dattaji K Shinde has delivered talk on "Effect of Electrospun Nanofibers and Carbon Nanotubes on Properties of Polymeric Composite Failure analysis" in AICTE ATAL Academy FDP Programme on 'Composite: Fracture toughness, NDE and failure Analysis' during 17-22 Nov. 2020 organized by Department of Mechanical Engineering of PHCE Rasayani Panel.

- Dr. Dattaji K Shinde has delivered talk on “Effect of Electrospun Nanofibers and Carbon Nanotubes on Properties of Polymeric Composite as Functional Material” in AICTE ATAL Academy Sponsored FDP Emerging Materials and Nanotechnology during 5-9 Oct. 2020 organized by Department of Automobile Engineering of PHCE Panvel.
- Dr Dattaji K Shinde has delivered talk on “Effect of Electrospun Nanofibers and Carbon Nanotubes on Properties of Polymeric Composite as Functional Material” in One Week Faculty Development Programme on ‘Future Materials: Nanocomposites’ from 15th June, 2020 to 21st June, 2020 organized by Department of Mechanical Engineering of BV (DU), COE, Pune.
- Dr Dattaji K Shinde has delivered Expert Talk on Nanofiber synthesis, characterization and its application for Composite Materials in the AICTE FDP at Department of Textile VJTI during 30-4 November 2019
- Dr Dattaji K Shinde was visiting Professor in Mechanical and Material science Engineering Department at University of North Carolina Charlotte NC USA during 21May -7 June 2019 and delivered the Expert talk on ” Effect of Electrospun Nanofibers and CNTs on Mechanical and Electrical Properties of Polymeric Fibreglass Composites”.
- Dr Dattaji K Shinde has delivered the keynote address “Effect of Electrospun Nanofibers and Carbon Nanotubes on the Properties of Polymeric Composite and its Failure Analysis” ICRADM-2020 International conference at SVNIT Surat on 17<sup>th</sup> July 2020

## HONORARY AND EXTERNAL COMMITTEE WORK

### CIVIL AND ENVIRONMENTAL ENGINEERING DEPARTMENT

#### **Dr. Bhave P.P.**

- Chairman, Board of Studies (BoS), Environmental Sciences, Mumbai University.
- Member, Board of Studies (BoS), Civil Engineering, MPSTME, SVKM's NMIMS.
- Member, Board of Examinations, Thakur CET, Mumbai.
- Member, Subject Board, Civil Engineering, Sardar Patel College of Engineering (SPCE), Mumbai.
- Member, Technical Advisory Committee (TAC) of Navi Mumbai Municipal Corporation, Navi Mumbai.
- Member, Technical Advisory Committee (TAC) of Municipal Corporation of Greater Mumbai, Mumbai.
- Member, Mumbai Heritage Conservation Committee (MHCC), Maharashtra
- Member, J. N. Tata Endowment Trust for Higher Education of Indian I G P (Education)
- Reviewer, Environmental Monitoring and Assessment (Springer)International Journal
- Reviewer, Journal of Environmental Engineering (ASCE)International Journal
- Reviewer, Journal of Hazardous, Toxic, and Radioactive Waste (ASCE)International Journal
- Reviewer, Ecological Indicator (Springer)International Journal

#### **Dr. Wayal A. S.**

- Member, National Board of Accreditation (NBA) Evaluation Committee

- Member, Expert Visiting Committee (EVC), Standing Hearing Committee (SHC)
- Standing Appellate Committee (SAC), AICTE, New Delhi
- Expert Member, Various Committees of Directorate of Technical Education, MS
- Examiner, M.Tech, PhD for various universities
- Reviewer, Journal of Hydrologic Engineering, ASCE.

**Dr. Varekar V.B.**

- Reviewer, Journal of Environmental Management, Elsevier

**COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY DEPARTMENT**

**Prof. P M Chawan**

- Member, Editorial Board, Journal of Electrical, Electronics & Computer Engineering Research, ISSN: 2229-9289(JEECER)
- Member, Editorial Board, Journal of Engineering Technological Research ISSN: 2229-9262 (JETR)
- Member, Editorial Board, Journal of Engineering Technology & Management Science(JETMS), ISSN: 2229-9254
- Member, Editorial Board, Technology Today, ISSN: 2180-0987
- Member, Editorial Board, The Technology World, ISSN: 2180-1614
- Member, Editorial Board, Engineering Today, ISSN: 2180-0995
- Member, Editorial Board, Journal of Engineering Today, India, ISSN: 0974-8377
- Reviewer, International Journal of Electronic Finance, Inderscience Publishers
- Member, Organizing Committee, International Conference on Recent Trends in Automation (ICRTA-19), April 2019 organized by IFERP at Hilton Hotel, Chennai.



- Member, Advisory Committee, International Conference on Latest Trends in Engineering and Management (ICLTEM-19) on 20-21 Oct 2019 at Pondicherry.
- Member, National Advisory Board, International Conference on Engineering, Education and Entrepreneurship (2nd ICEEE 2019), organized by the International Society of Engineering, Education and Entrepreneurship (ISEEE), Delhi held on 30<sup>th</sup> June 2019 at Pitumpura, India.
- Member, Organizing Committee, 5th Global Nanotek Summit held at at Hong Kong during October 24- 25, 2019.
- Member, National Advisory Board, 25th World Conference on Applied Science, Engineering and Technology (25th WCASET), held on 29th -30th December 2019 in Nanutel Margoa, Goa, India.
- Member, Organizing Committee, International Conference on Recent Advancements in Engineering and Technology (ICRAET-2020), 17th - 18th January 2020 in the city of Ahmedabad, Gujarat.

#### **Dr. B. B. Meshram**

- Member, Board of Studies, Department of IT, Dr. Babasaheb Ambedkar Technological University, Lonere
- Member, Advisory Committee, Department of IT, Dr. Babasaheb Ambedkar Technological University, Lonere
- Member, Research Recommendation Committee, Department of IT, Dr. Babasaheb Ambedkar Technological University, Lonere.
- Member, Editor Board, Indian Journal of Computer Science.

### **ELECTRICAL ENGINEERING DEPARTMENT**

#### **Dr. Faruk Kazi**

- In charge at National Institutional Ranking Framework (NIRF)

- Member Core Advisory Committee, DTE
- Chairman Board of Studies (BOS) EXTTC, Mumbai University
- Member BOS WCE-Sangli; SGGGS-Nanded; KIT-Kolhapur, BATU
- Member RRC EXTTC Engineering, Mumbai University
- Margadarshak under the AICTE scheme Visvevaraya Best Teacher Award 2020
- Winner of Smart India Hackthon 2017, AI Hackathon 2019, Smart India Hackthon 2019

**Dr.M.S. Panse**

- Member, BOS - Cummins College of Engineering for Women, Pune
- Member, BOS- S.P.C.E. Mumbai

**HUMANITIES AND MANAGEMENT DEPARTMENT**

**Prof. Usha Nair**

- External Committee member, DQAC in the Humanities Department at Fr Rodrigues Institute of Technology, Vashi.

**Dr. Gajanan T. Hivale**

- Reviewer Committee Member of International journal of Creative Research Thoughts IJCRT ([www.ijcrt.org](http://www.ijcrt.org)), Member ID 11508, since July 2019.

**MCA**

**Dr. Anala Pandit** and **Prof. Nikhil Khandare** worked as experts on the CET Syllabus Committee for syllabus design for MCA CET to be conducted for admission to A.Y.2021-22.

**Dr. Anala Pandit**

- Member of Board of Studies-SIMSR
- Technical expert in JN-TATA scholarships committee.
- Competent Authority in AICTE
- Senior member of IEEE
- Technical Programmer in Computational Intelligence & Communication Network 2018

## MECHANICAL ENGINEERING

### **Dr. A.V. Deshpande**

- Selection Committee for faculty recruitment, ICT Mumbai
- External Auditor, Somaiya College of Engineering

### **Dr. V. M. Phalle**

- Executive council member of Tribology Society of India (TSI)
- Board Member of IRD Mechanalysis Ltd. Andheri (E) Mumbai since July 2016
- Treasurer of Tribology Society of India (TSI) Mumbai-Pune Chapter 2013-2014
- QIP Centre, Margdarshan, NIRF Coordinator
- TEQIP-II Procurement Coordinator
- Member of Expert Team, National Board of Accreditation (NBA)
- Senior Member of “Indian Institute of Industrial Engineering”, Navi Mumbai (SMIIE 10036)
- Reviewer for SCI and Scopus Index International Journals and Books
- Journal of Tribology Transaction (Taylor & Francis group)

- Lubrication Science (Wiley)
- Tribology International (Elsevier)
- Journal of Engineering Tribology (IMechE Part J, SAGE)
- Journal of vibration and Control
- Book reviewed, Title of book: Aspects of Composite Fabrication on Age-Hardened Alloy, CRC PRESS, Taylor & Francis Group. August 2019
- 'Kinematics, Dynamics, and Design of Machinery' by Kenneth J. Waldron (Stanford University, USA) Gary L. Kinzel (The Ohio State University, USA) and Sunil K. Agrawal (University of Delaware, USA), Wiley Publication, John Wiley & Sons Limited is a private limited company registered in England with registered number 00641132, Oct 2013.

#### **Dr. Sachin S Naik**

- Subject Expert Member, Board of Studies in Mechanical Engineering, ATD University, Pune.
- Subject Expert Member, Board of Studies in Mechanical Engineering, SRES College of Engineering, Kopergaon, Dist.- Ahmednagar (MS)
- Subject Expert Member, Advisory Board of Industry and Academics, Sardar Patel College of Engineering, Andheri, Mumbai.

#### **Dr. Mandar V. Tendolkar**

- Member, Industrial and Alumni Advisory Board, PVG's COET, Pune, since 2014.

### **STRUCTURAL ENGINEERING DEPARTMENT**

#### **Dr. Abhay Bambole**

- Member, 'Standing Committee for Thane Creek Bridge -I, II and Turbhe Flyover., PWD, Govt. of Maharashtra, July 2017 till date

- Member on Board of Governors, Atomic Energy Education Society, DAE, June 2014 till date.

**Dr. M. A. Chakrabarti**

- Subject expert for National Board of Accreditation
- Member, High rise Committee, Navi Mumbai Municipal Cooperation.

**Dr. K. K. Sangle**

- Subject expert for National Board of Accreditation
- Member, High Rise Committee, Thane.

**Dr. Vivek B. Deshmukh**

- Member, High Rise Committee, Mumbai.
- Member, High Rise Committee, Thane.
- Treasurer, Indian Geotechnical Society Mumbai Chapter.

**Dr. Sandeep S. Pendhari**

- Subject expert for National Board of Accreditation
- Indian Institute of Technology (IITB), Doctoral students' external supervisor.
- Member, Mumbai Heritage Conservation Committee (MHCC)

**PRODUCTION ENGINEERING**

**Dr Dattaji K Shinde**

- Member, Editorial Board, Journal of the Ramanujan Mathematical Society
- Reviewer DST project proposals



- Course coordinator and PI for One week course of Global Initiative for Academic Networks, Ministry of Human Resource Development Government of India on Nanotechnology- Advances and Challenges in Engineering Materials and Manufacturing during July 8-13<sup>th</sup>, 2019 at VJTI Mumbai India.
- E-cell of VJTI, faculty Advisor from August 2018 till date.
- Board of Studies member for K K Wagh college of Engineering (Autonomous) Savitribai Phule Pune University from Dec. 2018
- Start-up Coordinator for VJTI from October 2017 till date
- MHRD's Institutions Innovation Council President for VJTI from Nov. 2018 till date
- ARIIA ranking VJTI Nodal Officer from Nov. 2018 till date
- Departmental NBA Coordinator for UG and PG programme from 2016
- Society for the Advancement of Material and Process Engineering (SAMPE) Student International Chapter Advisor for VJTI Mumbai.
- Coordinator for AISHE and RUSA activities at VJTI Mumbai from 2015 till date
- Founder Faculty Advisor for International SAMPE Student Chapter at VJTI Mumbai from 2017

## TECHNICAL AND APPLIED CHEMISTRY

### Dr. Sujatha P

- Life Member of Colour Society of India
- Member of Catalyst Society of India
- Coordinator for the Social Outreach Programme by associating with the NGO, Mumbai Sustainability Centre, and implemented the Safai Bank of India

programme, the collection of Multilayer Plastics (MLP) waste with the assistance of the SY classes of Computer, IT, Electronics and Electrical

**Dr. S. S. Lokegaonkar**

- Member of Catalyst Society of India

**Dr. N. N Wankhede**

- Life Member of Society for Materials Chemistry
- Member of American Chemical Society

**Mr. Mahendra S. Thorat,**

- Life Member of Society for Materials Chemistry

**Dr. Yogeshwar. Suryawanshi**

- Member, Editorial Board, Bulletin of the Chemical Society of Ethiopia
- Reviewer, Crystal research Technology

**Dr. Amar Vibhandik**

- Member of American Water Works Association

**TEXTILE MANUFACTURING DEPARTMENT**

**Dr.V.D. Gotmare**

- Managing Committee Member, Textile Association of India (Mumbai) from 2019 till present
- Nominated as Sub- Committee Member (S & T), Directorate of Science and Technology, Khadi and Village Industries Commission, Government of India
- Nominated on Technical Advisory Committee at 27th National Convention of Textile Engineers on Technical Textiles organized by Institute of Engineers

- Team member, QRT team CIRCOT, ICAR, Min. of Agriculture, GOI, Jan 2017
- Appointed as expert member, Board of Studies, D.K.T.E'S Ichalkaranji, Shivaji University Kolhapur, 2017-2018.
- Appointed as expert member, Evaluation of fabric quality of goods at various hospitals under, Directorate of Health, Government of Maharashtra, 2017-2018.

#### **Dr. Suranjana Gangopadhyay**

- Expert Member from Academia in Textile Machinery and Accessories Sectional Committee; TXD 14 of BIS (Bureau of Indian Standards).
- Jury member in ITAMMA's Excellence in Export Award Committee.

#### **Dr. D.V Raisinghani**

- Member, Board of Studies SVT College (SNDT University)
- Faculty mentor for DST project
- TMMA R&D Award Expert member
- MSBTE External Institute Monitoring Committee Chairman
- MSBTE Subject expert for equivalence of G to I Scheme

## PUBLICATIONS

### CIVIL AND ENVIRONMENTAL ENGINEERING DEPARTMENT

#### Journal Papers

- Kulkarni, B. N. and Dr. Bhave P. P. (2019). Effect of active and passive aeration on composting of household biodegradable wastes: a decentralized approach. *International Journal of Recycling of Organic Waste in Agriculture*. <https://doi.org/10.1007/s40093-019-00306-7>
- Mayur Dhadwad\* and Dr. Bhave P. P. "Fixed Film Bio-Methanation for Industrial Wastewater Treatment: A Review", *Journal of Indian Water Works Association*, 51(3) (2019), 224-230
- Shrestha R\*. and Dr. Bhave P. P. (2020). Mercury Air Pollution from Coal Combustion in India and Its Control Measures BT - *Global Challenges in Energy and Environment*. In V. Sivasubramanian & S. Subramanian (Eds.) (pp. 77–88). Singapore: Springer Singapore.
- Yeleswarapu D\*. and Dr. Bhave P. P. (2020). Removal of Indoor Air Pollutants Using Activated Carbon—A Review BT - *Global Challenges in Energy and Environment*. In V. Sivasubramanian & S. Subramanian (Eds.) (pp. 65–75). Singapore: Springer Singapore.
- Naik S\*., Salunkhe S.D\*. and Dr. Bhave P. P. Performance Evaluation of Wastewater Treatment Plant. *Water Conserv Sci Engg* 5, 23–29 (2020). <https://doi.org/10.1007/s41101-020-00081-x>
- Darshan Sansare\* and Dr Mhaske S.Y. (2019) "Natural Disaster Analysis and Mapping using Remote Sensing and QGIS Tools for F-North ward, Mumbai City, India". *Disaster Advances*, Vol. 12 (1) pp 40-50, January (2019), ISSN: 0974262X. (SCI Indexing, Scopus, Geobase (Elsevier) Indexed).

- Darshan Sansare\* and Dr Mhaske S.Y (2019) “Storm water Management of Mumbai city by using Pervious Concrete on GIS based platform”. International Journal of Recent Technology and Engineering (IJRTE), Vol. 8, no.2, pp 4400-4406, July 2019. ISSN: 22
- Darshan Sansare\* and Dr Mhaske S.Y (2019) “Risk analysis and mapping of natural disaster using QGIS tools for Mumbai City.”. Disaster Advances, Vol. 12 (10) pp 14-25. October (2019). ISSN: 0974262X. (SCI Indexing, Scopus, Geobase (Elsevier) Indexed).77-3878 (Scopus Indexed)
- Jyoti J. Nimje\* and Dr.WayalA.S., “Determination of ground water quality index in coastal area of Mumbai” ARPN Journal of Engineering and Applied Sciences, VOL. 15, NO. 8, APRIL 2020, pp. 1016-1022 (Scopus Indexed)
- Shweta P. Chaudhari\* and Dr. Wayal A.S “Implementation of six sigma methodology in construction for process improvement” International Journal of Civil Engineering and Technology (IJCIET)Volume 11, Issue 5, May 2020, pp. 57-66, Article ID: IJCIET\_11\_05\_006, Journal Impact Factor (2020): 11.3296 (Calculated by GISI) ISSN Print: 0976-6308 and ISSN Online: 0976-6316
- Priya Patel\*, Dr.WayalA.S.and Dr. A. K. Bharimalla “Performance evaluation of cement mortar blended nanofibrillated cellulose” International Journal of Civil Engineering and Technology (IJCIET)Volume 11, Issue 03, March 2020, pp. 169-176, Article ID: IJCIET\_11\_03\_018, Journal Impact Factor (2020): 11.3296 (Calculated by GISI) ISSN Print: 0976-6308 and ISSN Online: 0976-6316
- Pankaj Sohankar Singh\* and Dr.WayalA.S. “Swiss Challenge Method of Procurement: A Comparative Study of State Submission Requirements and Procedure Adopted in Indian States of Maharashtra, Haryana, Madhya Pradesh, Rajasthan and Karnataka” International Journal of Engineering Research & Technology (IJERT), <http://www.ijert.org> ISSN: 2278-0181, Vol. 8 Issue 10, October-2019, pp 537-545.



- Ajay Kumar Patel\*, Jayanta Kumar Ghosh\* & Sayyad S. U (2020) Fractional abundances study of macronutrients in soil using hyper spectral remote sensing, Geocarto International, DOI: 10.1080/10106049.2020.1720315. Published online 3rd February 2020.
- Jagdish K. Vishe\* and Chaudhari P. S. “Quantitative Assessment of Non-Revenue Water and Reduction Strategies: A Case Study of Kulgaon - Badlapur Municipal Council, Maharashtra” India International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.177, July 2019.
- Prasad\* and Chaudhari P. S “Performance Evaluation of Industrial Wastewater Treatment Plant at Taloja, Navi Mumbai, Maharashtra, India” Volume 7, Issue VII, July 2019 Journal for Research in Applied Science & Engineering Technology (IJRASET).
- Ajay Shelke\* and Chaudhari P. S “Application of Total Quality Management (TQM) Techniques in Village Development” Journal for Research in Applied Science & Engineering Technology (IJRASET), June 2019

### **Conference Papers**

- Karan M Sadhwani\*, Ashwini Tayade\* and Dr. Bhave P. P. “Spatial and temporal status of mercury in the polluted urban river ‘Mithi’ of Mumbai, India” 14th International Conference on Mercury as a Global Pollutant; 8th – 13th September 2019; Krakow, Poland
- Karan M Sadhwani\*, Mayur Dhadwad\* and Dr. Bhave P. P. “Total mercury in soil and leachate from municipal solid waste landfill in India” 14th International Conference on Mercury as a Global Pollutant; 8th – 13th September 2019; Krakow, Poland
- Darshan Sansare\* and Dr Mhaske S.Y (2019) “Land use change Mapping and its impact on Storm water runoff using Remote Sensing and GIS: A Case Study of Mumbai, India”. 5th ICOIRS (International Conferences of Indonesian Society for

Remote Sensing) 2019. (The 5th ICOIRS) and MAPIN Congress 2019, Indonesia, September 17 – 20, 2019. IOP Conf. Series: Earth and Environmental Science. Vol. 500, pp 1-12, doi:10.1088/1755-1315/500/1/012082 (2020) ( Scopus Indexed)

- Vaishali Navale\* and Dr Mhaske S.Y (2019) "GIS-Based Study of Groundwater Monitoring of Villages", Karhe Region, Maharashtra, 5th International conference of Indonesian society for remote sensing and MAPIN Congress 2019, 17th to 20th September 2019, Bandung, Indonesia. DOI: 10.1088/1755-1315/500/1/012089. (Scopus Indexed)
- Shaikh Arshad\* and Dr. Mhaske S.Y (2019) "A Sustainable Approach to Sub grade Stabilization Using Coir Fiber: Performance and Cost Evaluation", Proceedings of 2nd National Conference on Recent Advances in Civil Engineering (RACE II), NIT Patna, June 6-7 2019, Paper ID: 19020, pp. 133-138
- Mahajan Abhishek\* and Dr. Mhaske S.Y (2019), "Laboratory Investigation of Charcoal Coconut Shell Ash Modified Bitumen", Proceeding of 2nd National Conference on Recent Advances in Civil Engineering (RACE-II) NIT Patna, June 6-7, 2019, Paper Id 19024, pp. 169-174.
- Chauhan Digvijay\* and Dr. Mhaske S.Y (2019) "Super pave Mix Design for DBM in Indian Scenario", Proceeding of 2nd National Conference on Recent Advances in Civil Engineering (RACE-II), NIT Patna, June 6-7, 2019, Paper Id 19018, pp. 114-120
- Poredi Sarvesh\* and Dr. Mhaske S.Y (2019), "Suitability of EPS Geofoam in construction of road embankment: Cost and benefit analysis", Proceeding of 2nd National Conference on Recent Advances in Civil Engineering (RACE II) NIT Patna, June 6-7, 2019, Paper id 19021, pp 139-149
- Bane Abhishekh\* and Dr. Mhaske S.Y (2019)., "Laboratory analysis of bagasse ash and coir fiber Composite Concrete Blocks for Low-Cost Housing", 2nd National Conference on Recent advances in Civil Engineering (RACE II) NIT Patna, June 6-7, 2019, Paper Id 19023, pp. 164-168.

- Singh Bhupendra\* and Dr. Mhaske S.Y (2019), “Multi-Criteria Evaluation in GIS for Reconnaissance Survey of Route Selection in Difficult Terrain Using Open-Source Data and Software”, 2nd National Conference on Recent advances in Civil Engineering (RACE II) NIT Patna, June 6-7, 2019, Pg.103-113
- Chaudhari A\* and Dr. Wayal A.S. “GIS based current analysis and efficiency improvement of building water supply network” IOP Conf. Series: Earth and Environmental Science 500 (2020) 012083, IOP Publishing, doi:10.1088/1755-1315/500/1/012083 (Scopus indexed)
- Jain S.\*, Dr. Varekar V.B., and Dr. Wayal A. S. (2020). “Optimization Of Water Distribution Network for Accounting the Temporal Variation of Water Deficit Using LINGO.” 4th International Conference on Advances in Civil and Structural Engineering 2020, under TEQIP-III, held online by Government Engineering College, Karad, Maharashtra, from 28/05/2020 to 30/05/2020.
- Khare S\*., Banerji T\*, Dr. Varekar V.B. and Dr. Wayal A S. and. (2020). “Computational Modelling for horizontal subsurface constructed wetland using MODFLOW”. 4th International Conference on Advances in Civil and Structural Engineering 2020, under TEQIP-III, held online at Government College of Engineering, Karad, Maharashtra, May 28-30, 2020.
- Prachi Khalile\* and Dr. Wayal A. S "Stakeholders Management Process & its Affecting Factors in Construction Projects", International Conference on Recent Advancements in Civil Engineering and Infrastructure Developments (IC-RACEID-2019) organised by G. H. Rasoni College of Engineering Nagpur, July 5-6, 2019, Springer.
- Shaikh Mohd. Tazir Asif\* and Dr. Wayal A.S., "Study on Properties of Lightweight Concrete using Expanded Clay Aggregate and its Value Engineering", International Conference on Recent Advancements in Civil Engineering and Infrastructural Developments (IC-RACEID-2019) organised by G. H. Rasoni College of Engineering, Nagpur, July 5-6, 2019, Springer.

- S.D. Sagvekar\* and Dr. Wayal A.S., "Early Contractor Involvement (ECI) as a Construction Project Delivery Method: An Overview", 2nd National Conference on Recent Advances in Civil Engineering (RACE II) organised by Department of Civil Engineering NIT Patna, June 6-7, 2019.
- Mahendra Nannaware\*, Vishwanathan Kalyanakrishnan\*, Vishwajit Nalawade\* and Chaudhari P. S "Obsolescence and Gap in the Academic Curriculum of Engineering" National Conference on Exploring New Dimensions in Teaching Learning for Quality Education, K K Wagh College of Engineering, Nashik, India.8 June 2019
- Mahendra Nannaware\*, Vishwanathan Kalyanakrishnan\*, Vishwajit Nalawade\* and Chaudhari P. S "Sustainability of Rural Water Supply schemes" ICRTICE-2019 Medi-Caps University, Indore. September 2019
- Kulkarni S\* and Dr. Varekar V.B. (2020). Developing Water Resilience through Recycled water Kalyan Dombivali City. 1st International conference of Urban Science and Engineering, Organized by Centre for Urban Science, IIT Bombay, at IIT Bombay, Powai, Mumbai, during 28-29 February 2020.
- Kondawara S\*., and Dr. Varekar V.B. (2020). Integrated approach of Entropy weight method and TOPSIS for selection of Bridge construction method. National Conference on Mathematics and its Application in Technology organized by Department of Mathematics, VJTI Mumbai. Page no. 42-29, on 29 February 2020.
- Kulkarni S\* and Dr. Varekar V. B. (2019), Building of Water Resilience for Kalyan Dombivali City using Roof Top Runoff. 2nd International conference on Sustainable Water Management, Organized by Ministry of Jal Shakti Govt. of India, during 6-8 November 2019 at Pune.
- Honkalas P\*., and Dr. Varekar V.B. (2019). Measurement of Construction Productivity by using Situational based Modeling. 2nd National Conference on Recent Advances in Civil Engineering (RACE - II), held at National Institute of Technology, Patna, India during 6-7 June 2019.

- Gharat N\*, and Dr. Varekar V.B., (2019). Performance characteristics of Ceramic waste concrete with Fly ash and Granite powder as Filler. 2nd National Conference on Recent Advances in Civil Engineering (RACE - II), held at National Institute of Technology, Patna, India, during 6-7 June 2019.
- Singh Y\*, Kalyanakrishnan V\*.and Dr. Varekar V.B. (2019). Analysis of Delay Causes in Mumbai Suburban Western Railway Network. World Conference on Transport Research - WCTR 2019 Mumbai during 26-31 May 2019 at IIT Bombay.
- Sawant K\*, and Dr. Varekar V.B. (2019). A revenue risk sharing approach for Public Private Partnership model used for construction of Sion-Panvel highway, Mumbai. World Conference on Transport Research - WCTR 2019 Mumbai during 26-31 May 2019 at IIT Bombay.
- Kondawara S\*. Shivsharan A\* and Dr.Varekar V.B. (2019). Integrated Approach of Entropy Weight Method and TOPSIS for Selection of Bridge Construction Method. World Conference on Transport Research - WCTR 2019 during 26-31 May 2019 at IIT Bombay.

### **Books/Book Chapters**

- Rameez H Rai\*, Mishra H\* and Dr. Varekar V.B., (2019). Life Cycle Assessment of Metropolitan Solid Waste Management Infrastructure for Resilient City: Navi Mumbai Urbanization Challenges in Emerging Economies, Resilience and Sustainability of Infrastructure. Part –I, Page no. 354 – 365, ISBN 978-0-7844-8203-2 (PDF).

## **COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY DEPARTMENT**

### **Journal Papers**

- Pranav Nerurkar\*, Madhav Chandane, Sunil Bhirud, Dhiren Patel, and Yann Busnel, “Multilabel classification of remote sensed satellite imagery”, Transactions on Emerging Telecommunications Technologies (2020): e3988.

- Pranav Nerurkar\*, Dr. Madhav Chandane, Dr. Sunil Bhirud “Understanding structure and behavior of systems: a network perspective” Article in International Journal of Information Technology, August 2019
- Pranav Nerurkar\*, Dr. Madhav Chandane, Dr. Sunil Bhirud “Empirical analysis of synthetic and real networks” Article in International Journal of Information Technology, August 2019
- Sandeep S. Udmale, Sangram S. Patil, Vikas M. Phalle and Sanjay Kumar Singh, “A bearing vibration data analysis based on spectral kurtosis and ConvNet”, Soft Computing, Vol. 23, No. 19, PP. 9341-9359, 2019.
- Sandeep S. Udmale, Sanjay Kumar Singh, Rishav Singh, and Arun Kumar Sangaiah “Multi-fault bearing classification using sensors and ConvNet-based transfer learning approach” IEEE Sensors Journal, Oct 2019
- Sandeep S. Udmale and Sanjay Kumar Singh, “Application of spectral kurtosis and improved extreme learning machine for bearing fault classification”, IEEE Transactions on Instrumentation and Measurement, Vol. 68, No. 11, PP. 4222-4233, 2019.
- Mr. Akshay Wankhade\*, Prof. Pramila M. Chawan “Windows Log Investigator System for Faster Root Cause Detection of a Defect”, International Research Journal of Engineering and Technology (IRJET), Volume: 06, Issue: 08, e-ISSN: 2395-0056, p-ISSN: 2395-0072, August 2019.
- Prasad Jadhav\*, Prof. Pramila M. Chawan “Data Leak Prevention System: A Survey”, International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 06 Issue: 09 p-ISSN: 2395-0072 September 2019.
- Shubham Pal\*, Prof. Pramila M. Chawan, “Real-time object Detection using Deep Learning: A survey”, International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 06 Issue: 10p-ISSN: 2395-0072 Oct 2019.



- Krishna Kale\*, Prof. Pramila M. Chawan, "Sentiment Analysis to Segregate Attributes using Machine Learning Techniques: A Survey", International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 06 Issue: 10p-ISSN: 2395-0072 Oct 2019.
- Piyush S. Atram\*, Prof. Pramila M. Chawan, "Finding Dominant Color in the Artistic Painting using Data Mining Technique: A Survey", International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 06 Issue: 10p-ISSN: 2395-0072 Oct 2019.
- Mamta Jadhav\*, Zeel Thakkar\*, Prof. Pramila M. Chawan, "Breast Cancer Prediction using Supervised Machine Learning Algorithms", International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 06 Issue: 10p-ISSN: 2395-0072 Oct 2019.
- Riddhi N. Nisar\*, Devangi P. Bhuva\*, Prof. Pramila M. Chawan, "Visual Question Answering using combination of LSTM and CNN: A Survey", Riddhi N. Nisar, Devangi P. Bhuva, Prof. Pramila M. Chawan in International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 06 Issue: 10p-ISSN: 2395-0072, Oct 2019.
- Sandeep S. Udmale, Sanjay Kumar Singha, Dr. Sunil G. Bhirud "A bearing data analysis based on kurtogram and deep learning sequence models" Elsevier measurements, pages 665-677, Volume 145, October 2019
- V. Gotmare, S. U. Bokade, Z. Z. Inamdar, Dr. S.G. Bhirud, "A Systematic Literature Review on RFID Application in Manufacturing and Supply Chain Management" Industrial Engineering Journal, Volume 12 Issue 10, October 2019
- Varshapriya J N, "Vulnerabilities, Threats, Attacks in Cloud Computing" The journal of Gujarat research society, Volume 21 Issue 6 October 2019
- Mareena Marydas\*, Varshapriya J N "A cloud based honeynet system for attack detection using machine learning techniques" International Research Journal of

Engineering and Technology (IRJET) e-ISSN: 2395-0056, Volume: 06 Issue: 07 | July 2019

- Charuli Patil\*, Kiran K Joshi “User Privacy and Database Security Using Context Based Access Control in Android Devices: A Survey” in International Research Journal of Engineering and Technology (IRJET), Volume: 07 Issue: 07, July 2020
- Hemesh Sawakar\*, Kiran K. Joshi "Android Vulnerability Analysis and Approach of Malware Detection" International Research Journal of Engineering and Technology (IRJET), Volume: 07 Issue: 07, July 2020
- Shraddha Suratkar, Mrunmayee Dhapre\*, Apurva Vaje\*, “Long Short-Term Memory and Gated Recurrent Unit Predictive Models for Industrial Control Systems”, Scopus Indexed International Journal of Artificial Intelligence, Vol no. 19, Fall 2020.
- Shivanjali Barkund\*, Prof. K.K. Joshi “An efficient hardware–oriented runtime approach for stack –based software buffer overflow attacks on system compiler” in International Research Journal of Engineering and Technology, Vol-6, Issue -7, July 2019

### **Conference Papers**

- Sandeep S. Udmale and Sanjay Kumar Singh, “Intra-inter feature ranking based feature selection method for bearing fault classification”, 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IIT, Kanpur, India, July 6-8, 2019.
- Sandeep S. Udmale and Sanjay Kumar Singh, “Analysis of statistical features for bearing fault classification using ensemble technique”, 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IIT, Kanpur, India, July 6-8, 2019.
- Varshapriya J. N. “Object Detection and Classification Using GPU Acceleration”, 3rd International Conference on Computational Vision and Bio Inspired Computing (ICCVBIC 2019), 25th and 26th September 2019.

- Umesh B. Pawar, Dr.Sunil G. Bhirud, Satish R. Kolhe, “Light Scattering Study on Protocols and Simulators Used in Automotive Application(s)” Computing in Engineering and Technology pp 165-176, 17 October 2019
- Shrinivas Khedkar, Akhil Powar\*, Nikhil Powar\*, Chethan Kille\*, Harsh Kansara\*, “Transcripts DApp—A Blockchain-Based Solution for Transcript Application”, IC-BCT 2019, 2020 – Springer.
- J Rathod\*, A Gupta\*, D Patel, “Using Blockchain Technology for Continuing Medical Education Credits System”, 2020 Seventh International Conference on Software Defined Systems (SDS), 214-219
- Pranamya Jain\*, Siddhesh Gangan\*, Siddhesh Rane\*, Yash Jain\*, Dhiren Patel, “Tenders 2.0 – A Stake-Based Blockchain Solution for Tender Procurement System”, IC-BCT 2019, 2020 – Springer
- Aman Framewala\*, Sarvesh Harale\*, Shreya Khatal\*, Dhiren Patel, Yann Busnel\*, Muttukrishnan Rajarajan\*, “Blockchain Analysis Tool for Monitoring Coin Flow”, Second International Workshop on Blockchain Applications and Theory (BAT 2020)
- Jainam Chirag Shah\*, Mugdha Bhagwat\*, Dhiren Patel, Mauro Conti, “Crypto-Wills: Transferring Digital Assets by Maintaining Wills on the Blockchain”, International Conference on Communication and Intelligent Systems.
- Shraddha Suratkar, Faruk Kazi, Rohan Gaikwad\*, Akshay Shete\*, Raj Kabra\*, Shantanu Khirsagar\*, “Multi Hidden Markov Models for Improved Anomaly Detection Using System Call Analysis”, 2019 IEEE Bombay Section Signature Conference, IIT Bombay, July 26-28, 2019.

## **ELECTRICAL ENGINEERING**

### **Journal Papers**

- Bansode, P. A., Kosaraju, K. C., Wagh, S. R., Pasumarthy, R., & Singh, N. M. (2019). Accelerated distributed primal-dual dynamics using adaptive synchronization. IEEE Access, 7, 120424-120440.

- Sheikh, A., Kamuni, V., Urooj, A., Wagh, S., Singh, N., & Patel, D. (2019). Secured energy trading using byzantine-based blockchain consensus. *IEEE Access*, 8, 8554-8571.
- Bansode, P. A., Kosaraju, K. C., Wagh, S. R., Pasumarthy, R., & Singh, N. M. (2019). Accelerated distributed primal-dual dynamics using adaptive synchronization. *IEEE Access*, 7, 120424-120440.
- Sheikh, A., Kamuni, V., Urooj, A., Wagh, S., Singh, N., & Patel, D. (2019). Secured energy trading using byzantine-based blockchain consensus. *IEEE Access*, 8, 8554-8571.
- Akshay Podey\*, Jayalakshmi Chandle, "Stability Analysis of DC-DC Boost Converter using Sliding Mode Control" *IRJET Vol 7, Issue: 06, June 2020*
- Dr. M.S. Panse- 12 journal papers (10 UGC approved + 2 Scopus indexed)

### **Conference Papers**

- Akshay, P., Vrushabh, D., Sonam, K., Wagh, S., & Singh, N. (2020, September). Hamiltonian Monte Carlo based Path Integral for Stochastic Optimal Control. In 2020 28th Mediterranean Conference on Control and Automation (MED) (pp. 254-259). IEEE.
- Vrushabh, D., Akshay, P., Sonam, K., Wagh, S., & Singh, N. M. (2020, September). Robust Path Integral Control on Stochastic Differential Games. In 2020 28th Mediterranean Conference on Control and Automation (MED) (pp. 665-670). IEEE.
- Vrushabh, D., Shalini, K., Sonam, K., Wagh, S., & Singh, N. M. (2020, July). Adaptive Dynamic Programming for Optimal Synchronization of Kuramoto Oscillator. In 2020 American Control Conference (ACC) (pp. 1755-1760). IEEE.

- Saija, A., Sonam, K., Kazi, F., & Singh, N. M. (2020, May). Coherency Identification in Multimachine Power Systems Using Dynamic Mode Decomposition. In 2020 European Control Conference (ECC) (pp. 1342-1347). IEEE.
- Sunny, K., Sheikh, A., Wagh, S., & Singh, N. M. (2020, September). Prediction and Classification of Temperature Data in Smart Building using Dynamic Mode Decomposition. In 2020 28th Mediterranean Conference on Control and Automation (MED) (pp. 1074-1079). IEEE.
- Patil, A., Kamuni, V., Sheikh, A., Wagh, S., & Singh, N. (2019, December). A machine learning approach to distinguish faults and cyberattacks in smart buildings. In 2019 9th International Conference on Power and Energy Systems (ICPES) (pp. 1-6). IEEE.
- M. Sawant, J. Moyalan, J. Koonampampath, A. Sheikh, S. Wagh and N. Singh, "Building Temperature Control: A Distributed Escort Dynamical approach," 2019 9th International Conference on Power and Energy Systems (ICPES), Perth, Australia, 2019, pp. 1-6, doi: 10.1109/ICPES47639.2019.9105423.
- Mohite, S., Suryawanshi, U., Sheikh, A., Wagh, S., & Singh, N. M. (2019, October). Impact of temperature on state of charge estimation for an electric vehicle. In 2019 North American Power Symposium (NAPS) (pp. 1-6). IEEE.
- Bhagyashree, U., Sonam, K., Wagh, S. R., & Singh, N. M. (2019, October). Bifurcation point tracking in generator outage scenario using nested holomorphic embedding power flow method. In 2019 North American Power Symposium (NAPS) (pp. 1-6). IEEE.
- Sonam, K., Wagh, S. R., & Singh, N. M. (2019, October). Synchronized Operating Point Stability of Multimachine Power System using Holomorphic Embedding in Kuramoto Framework. In 2019 North American Power Symposium (NAPS) (pp. 1-6). IEEE.

- Akshay, P., Vrushabh, D., Sonam, K., Wagh, S., & Singh, N. (2020, September). Hamiltonian Monte Carlo based Path Integral for Stochastic Optimal Control. In 2020 28th Mediterranean Conference on Control and Automation (MED) (pp. 254-259). IEEE.
- Vrushabh, D., Akshay, P., Sonam, K., Wagh, S., & Singh, N. M. (2020, September). Robust Path Integral Control on Stochastic Differential Games. In 2020 28th Mediterranean Conference on Control and Automation (MED) (pp. 665-670). IEEE.
- Sunny, K., Sheikh, A., Wagh, S., & Singh, N. M. (2020, September). Prediction and Classification of Temperature Data in Smart Building using Dynamic Mode Decomposition. In 2020 28th Mediterranean Conference on Control and Automation (MED) (pp. 1074-1079). IEEE.
- Patil, A., Kamuni, V., Sheikh, A., Wagh, S., & Singh, N. (2019, December). A machine learning approach to distinguish faults and cyberattacks in smart buildings. In 2019 9th International Conference on Power and Energy Systems (ICPES) (pp. 1-6). IEEE.
- M. Sawant, J. Moyalan, J. Koonamparampath, A. Sheikh, S. Wagh and N. Singh, "Building Temperature Control: A Distributed Escort Dynamical approach," 2019 9th International Conference on Power and Energy Systems (ICPES), Perth, Australia, 2019, pp. 1-6, doi: 10.1109/ICPES47639.2019.9105423.
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- Bhagyashree, U., Sonam, K., Wagh, S. R., & Singh, N. M. (2019, October). Bifurcation point tracking in generator outage scenario using nested holomorphic embedding power flow method. In 2019 North American Power Symposium (NAPS) (pp. 1-6). IEEE.



- Sonam, K., Wagh, S. R., & Singh, N. M. (2019, October). Synchronized Operating Point Stability of Multimachine Power System using Holomorphic Embedding in Kuramoto Framework. In 2019 North American Power Symposium (NAPS) (pp. 1-6). IEEE.
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### **Books/Book Chapters**

- K. Sonam, S. R. Wagh, and N. M. Singh, "Chapter 7: Phase-Locked Loop Design For Grid Inverter", Phase-Locked Loops: Structure, functions and Applications, Nova science publisher, pp. 185-204, 2020
- K. Sonam, S. R. Wagh, and N. M. Singh, "Chapter 7: Phase-Locked Loop Design For Grid Inverter", Phase-Locked Loops: Structure, functions and Applications, Nova science publisher, pp. 185-204, 2020

## **HUMANITIES AND MANAGEMENT DEPARTMENT**

### **Journal Papers**

- Dr. Gajanan T. Hivale & Prof. Kishore Borase, "Exposing the theme of an Oppression in The God of Small Things", Langlit, Vol no.6 Issue 2, November 2019

### **Conference Papers**

- Prof. Usha Nair  
 "Language and Gender-Discourse Analysis of Women in Leadership Roles in India', Language and Prejudice Symposium, University of Orebro, Sweden November 13-15, 2019.
- Prof. Vineeth R., "Marginal Men as Unsung Eco-Heroes in Pandemic Time" in Two-Day International Web Conference on Literary Studies in Coronavirus Terrain: Reading Peril, Environment and Normalcy on 26 th and 27 th June 2020

“Beast in Pensioner’s Paradise: Ecophobia in K. R. Usha’s Monkey-Man” in the Two Day International Conference on Island Literature on Environmental Humanities, organized by Lavender Literary Club, Kanyakumari in Collaboration with Department of English, Malankara Catholic College, Tamil Nadu on 21 st & 22 nd February 2019 at Estuary Island Resort, Poovar, Kerala, India (Paper published in: Online International Interdisciplinary Research Journal, (Bi-Monthly), ISSN 2249-9598, Volume-09, Mar 2019 Special Issue (03)

“Utopia/Dystopia as Ecomasculine Space in Ernest Callenbach’s Ecotopia” in a National Conference on Spatial Imagination at CHM College, Ulhasnagar on 8 th January 2016. (Paper published in: Adalya Journal (UGC CARE), ISSN 1301-2746, Volume 8, Issue 8, August 2019)

## MATHEMATICS DEPARTMENT

### Journal Papers

- Rajpal, M. Kamra and S.N. Mishra, “Spanning set labeling of graphs”, International Journal of Advanced Science and Technology, Volume 29 no. 7s, April 2020, pp.615-618. (Scopus).
- Pooja Singh, Lalit Singh, “Design of Safety Critical and Control Systems of Nuclear Power Plants using Petri Nets,” Nuclear Engineering and Technology, Elsevier, Volume 51, Issue 5, August 2019, pp.1289-1296. (SCI Impact factor- 1.655).
- Pooja Singh, Lalit Singh, “Verification of Safety Critical and Control Systems of Nuclear Power Plants using Petri Nets,” in Annals of Nuclear Energy, Elsevier, Volume 132, October 2019, pp.584-592 (SCI Impact factor- 1.476) .
- Mohan Rao Mamdikar, Vinay Kumar, Pooja Singh, and Lalit Singh, "Reliability and Performance Analysis of Safety Critical Systems of NPP," Annals of Nuclear Energy, Elsevier, Volume 146, June 2020, 107628. (SCI Impact factor- 1.476).

### **Patents Filed/Granted**

- Title: A Framework for Reliability and Performance Analysis of Safety-Critical Systems using Stochastic Modeling.
- Inventors - Vinay Kumar, Mohan Rao Mamdikar, Pooja Singh, Ashish Kumar Maurya, Vibhav Prakash Singh, Aditya Narayan Hati.
- Application No. 202031014381, Application date: 31/03/2020, Published date: 15/05/2020.
- Patent Agency: Controller General of Patents, Design and Trademarks, Dept. of Industrial Policy and Promotion, Ministry of Commerce and Industry.

## **MCA DEPARTMENT**

### **Journal Papers**

- Keval Muley, and Anala Pandit, "Resource Aggregation and Collaboratory Generation in Folksonomy Based on Tag Clustering", International Journal of Research and Analytical Reviews, 6(2), 984-987, 2019, June
- Dhande Ashwini, and Pandit Anala, "WI-FI Offloading in 5G". International Journal for Research in Applied Science & Engineering Technology (2321-9653) Volume 7(7), (2019, July).
- Shastri, M. D., & Pandit, A. A., "Remodeling: Improved Privacy Preserving Data Mining" (PPDM). International Journal of Information Technology, 1-7. Springer., (2020, October).
- J. Lodhavia \*, V. Jain \*, A. Gupta \*, H. Prabhu \* and A. Pandit, "User-profiling based E-learning system using Question Adaptation", 2020 Second International Conference on Inventive Research in Computing Applications (ICIRCA), Coimbatore, India, 2020, pp. 723-728,
- Nikhil B Khandare, "PPSTS: Privacy Preservation in Geographical Data by Spatio-Temporal Shifting Using Elliptic Curve Cryptography", Wireless Personal

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- Pranali Ramesh Adivarekar \*, Sonali Ajankar, “Diabetic Retinopathy Detection using Hybrid Classifier” in International Journal of Research in Applied Science & Engineering Technology (IJRASET), Aug 2019
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### **Conference Papers**

- Nikhil B Khandare, Narendra S Chaudhari\*, Secure Sharing of Location Data Using Elliptic Curve Cryptography, International Conference on Intelligent Computing and Smart Communication 2019.
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### **Books/Book Chapters**

- Pandit, A. A., Pimpale, B.\*, & Dubey, S\*, A Comprehensive Review on Unsupervised Feature Selection Algorithms. In Singh Tomar G., Chaudhari N., Barbosa J., Aghwariya M. (eds) Algorithms for Intelligent Systems. Springer, Singapore, December 2020. (pp. 255-266).
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- Pandit, A. A., & Toksha, G. Review of Plagiarism Detection Technique in Source Code. In Singh Tomar G., Chaudhari N., Barbosa J., Aghwariya M. (eds) Algorithms for Intelligent Systems. Springer, Singapore. December 2020. (pp. 393-405)

## **MECHANICAL ENGINEERING DEPARTMENT**

### **Journal Papers**

- Swain, P.K., Koli, P., Ghorui, S., Mukherjee, P., and Deshpande, A.V., "Thermofluid MHD studies in a model of Indian LLCB TBM at high magnetic field relevant to ITER". Fusion Engineering and Design, 150(2020)
- Pansare Sunil\* and Sachin S Naik, "Detection of Inclined Edge Crack in Prismatic Beam Using Static Deflection Measurements" SADHANA, 44(2):42, Indian Academy of Science
- Acharya, K.G., Yewale, G.P, Tendolkar, M.V. and Kulkarni, S.H., "Estimation and Analysis of Cooling Load for Indian Subcontinent by CLD/SCL/CLF Method at Part Load Conditions", Journal of Physics: Conference Series, Volume 1240, Issue 1, August 2019, Article Number 012031, Code 150584.

### **Conference Papers**

- Piyush Kailash Malviya, Vinit Shashikant Jawale, Ojas Patil, Ameya Bandekar and Sachin Barve, "Development of a Simulation Model for Computing Stable Configurations for Off - Road Vehicle, International Conference on Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility" ISSN: 0148-7191, SAE Technical Paper 2019-28-0126, 2019.<https://doi.org/10.4271/2019-28-0126>.
- Yadav, A., Atkuri, N., and Deshpande, A., "Optimization of Simulation Time for Transient CFD Analysis of Tractor Radiator Fan", 46th National Conference on Fluid

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- Bhore, S., Deshpande, A., Tendolkar, M., & Singh, V., “Numerical Investigation of Natural Convection Heat Transfer from a flat plate inside an enclosed pressure chamber”, 46th National Conference on Fluid Mechanics and Fluid Power. PSG College of Technology, Coimbatore, India, December 9-11, 2019.
- Deshpande, A., and Puranik, B., “Numerical Investigation and Analysis of Post-Shock Flow in Microducts”, 32nd International Symposium on Shock Waves (ISSW32), National University of Singapore, Singapore, July 14-19, 2019.
- Bhore, S., Deshpande, A., Tendolkar, M., and Singh, V., “Numerical Investigation of Natural Convection inside a cube at sub-atmospheric pressure”, 12th International Conference on Thermal Engineering: Theory and Applications, PDPU Gandhinagar, India, February 2019
- Jobanputra, R.A., Sanjay, M. G, and Deshpande, A.V., “Development of Optimum Power Point equations for variable Speed HAWT on Complex plane”, 12th International Conference on Thermal Engineering: Theory and Applications. PDPU Gandhinagar, India, February 2019
- L. N. Patil and H. P. Khairnar, “Comparative Analysis of Mechanically and Electrically Actuated Automobile Braking System”, Proceedings of 5th International Conference on Industrial Engineering (ICIE-2019) held at SVNIT Surat, ISBN:978-93-86238-81-8.
- Mrunal Kshirsagar and H. P. Khairnar, “Tribology in Automobile Brake System: A Review”, 5th International Conference on Industrial Engineering (ICIE-2019) , SVNIT, Surat, India.
- Desai P P and Naik S S, “Inverse Problem of Beam with Inclined Edge Crack”, 64th Congress (An international meet) of Indian Society for Theoretical and Applied Mechanics, IIT Bhubaneswar, Odisha, December 09-12, 2019



- Nikhil K. Purwant, Jitendra B. Satpute\*, and Mandar V. Tendolkar, “An Investigation of Air Conditioning System Diagnosis”, Proceedings of Techno-Societal 2018, [https://doi.org/10.1007/978-3-030-16962-6\\_89](https://doi.org/10.1007/978-3-030-16962-6_89), Springer Nature Switzerland AG 2020, pp. 895-904.
- Manisha Lembhe, V. K. Bhokwani and M. V. Tendolkar, “Analysis of Stirling type Pulse Tube Cryocooler”, Proceedings of the 27th National Symposium on Cryogenics and Superconductivity (NSCS-27), held during January 16-18, 2019, IIT Bombay, Mumbai.

## PRODUCTION ENGINEERING DEPARTMENT

### Journal Papers

- Dattaji K Shinde, Sachin C Kulkarni, A review on study of polymer and recent development and future challenges in materials for additive manufacturing- 3D Printing, Additive Manufacturing Journal Volume 1 November 3, 2019 -3-10Pg. 54-61. [https://issuu.com/rpdmag/docs/am\\_2019\\_journal](https://issuu.com/rpdmag/docs/am_2019_journal)
- Sontakke, D. , Thakre, A. , Shinde, D. , Parmeshwaran, S. (2019). Morphological and Electrical Characterization of Polyacrylonitrile Nanofibers Synthesized Using Electrospinning Method for Electrical Application. World Academy of Science, Engineering and Technology, Open Science Index 150, International Journal of Electrical and Computer Engineering, 13(6), 421 - 426.
- Sachin C. Kulkarni, Jitendra Singh, and Dattaji. K. Shinde,” Mechanical and Electrical Properties of Carbon Nanotubes Based Acrylonitrile Butadiene Styrene Nanocomposite Fabricated Using Fused Deposition Method”, SAMPE 2019 May 20-23, 2019 Charlotte NC USA, DOI: 10.33599/nasampe/s.19.1406
- P. V. Gharat, D K Shinde, D N Raut, Design, Development of fissure detection and imaging techniques for brown rice kernels to improve quality of rice miller, Journal of Emerging Technologies and Innovative Research-2019 JETIR February 2019, Volume 6, Issue 2 [www.jetir.org](http://www.jetir.org) (ISSN-2349-5162) Pg. 40-45.

- Madhukar Nagare and P. Dutta. (2018). Procurement And Markdown Policies For Single Period Product With Multivariate Demand And Heterogeneity Of Price Sensitivity. Computers and Industrial Engineering, 125,451-466. (Elsevier)

### **Conference Papers**

- Suhas Uthale, D K Shinde, "Mechanical characterization of neat epoxy resin and its failure analysis using FEM", International Conference on Functional Materials-2020" (ICFM-2020), during January 6-8, 2020 at Indian Institute of Technology Kharagpur. India.
- Bohra, D K Shinde, "Synthesis and Characterization of Graphene based Acrylonitrile Butadiene Styrene nanocomposite Using Fused Deposition Method", Proceeding of International Conference on Nanotechnology-NANOCON 2018 , at Pune, India during 25-26, 2018.
- Pirsab Attar, S. Ghosh, and P. Venkateswara Rao, "Effect of nano-MQL using graphene nanoplatelets as cutting fluid on lubrication during grinding of Nimonic 90", 2019 STLE Tribology Frontiers Conference, Chicago, Illinois (USA), October 20-23, 2019.

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## **STRUCTURAL ENGINEERING DEPARTMENT**

### **Journal Papers**

- S Bhosle, VB Deshmukh, "Experimental studies on soft marine clay under combined vacuum and surcharge preloading with PVD" International Journal of Geotechnical Engineering, Springer 2018
- S Bhosle, DK Verma, VB Deshmukh, "A Simplified Approach for Estimating Settlement of Soft Clay under Vacuum Consolidation" KSCE Journal of Civil Engineering, Taylor & Francis Publication, 2019.
- Waghmare, D. Koothoor, D. Shah, K. Bid, R. Ghadwal, S. Sonawane, V. Sanghvi, A. Bambole, "Performance of RC Columns Strengthened with Prestressed CFRP Bands", Recent Advances in Structural Engineering-Volume 2, Select Proceedings of SEC 2016, Springer Singapore, vol. 12, 709-720, 2019.
- Waghmare, D. Koothoor, D. Shah, K. Bid, R. Ghadwal, S. Sonawane, V. Sanghvi, A. Bambole, "Exact Analysis of Layered Plates Using Mixed Form of Hooke's Law", Recent Advances in Structural Engineering-Volume 2, Select Proceedings of SEC 2016, Springer Singapore, vol. 12, 797-809, 2019.

### **Conference Papers**

- J.G. Solanki and S. Ghosh, "Statistical characterization of expanded metal mesh strand, to propose correlation between properties of parent material and finish product EMM", 4th ICCEMS, Bangkok, Thailand, 17 to 19 May 2019.
- J.G. Solanki and S. Ghosh, "Statistical characterization of expanded metal mesh strand, to propose correlation between properties of parent material and finish product", EMM IOP Conference Series Materials Science and Engineering 652:012008, October 2019.
- G. Narule and A.N. Bambole, "Experimental Study on the Effect of Aspect Ratio On Strength Enhancement of CFRP Wrapped RC Rectangular Columns of Varying Slenderness Ratio", SEC-2016, ICCRS10, BARC Mumbai, 24-25, June 2019.

- Ajgaonkar, S. Vichare, R. Badgujar, M. Bansode, D. Karia and A. Bambole, “Remote Structural Health Monitoring”, International Conference on Convergence to Digital World - Quo Vadis (ICCDW), Mumbai, India, 18-20 February 2020.

## **TEXTILE DEPARTMENT**

### **Journal Papers**

- Patil Nitin and Borkar S.P, “Impact on Rotor & Air-Jet Yarn Properties Due To Components and Parameter”, Journal of Textile Association, Vol. 77, Jan 2017.
- \*Patil Nitin and Borkar S.P, “Impact on fabric hand on knitted fabric made of ring, rotor and air-jet yarn”, Milliand International, Vol. 23, March 2017.
- \*Baliga Arti and Borkar S.P, “In Vitro Cytotoxicity Characterisation of Keratin Protein for Tissue Engineering Applications”, Journal of Engineering and Applied Sciences, Aug. 2017.
- Gotmare V.D, \*Kole S.S and Athawale R.B, “Advances in Biodegradable Polymers a New route for Development of Eco-friendly Medical Textile Products for Health care Applications”, Journal of Textile Association, Sep. 2017.
- \*Kole S.S, Gotmare V.D and Athawale R.B, “Sustainable approach for Development of Antimicrobial Textile Material using Nanoemulsion for Wound care Application, Fashion and Textiles, March. 2018.
- Gotmare V.D, \*Kole S.S and Athawale R.B, “Novel approach for Development of Antimicrobial Textile Material for the Healthcare Applications”, Journal of Textile Institute, May. 2018
- \*Naik Rohit and Rakshit A.K, “Characterization and synthesis of polyester and viscose nonwovens fabrics embedded with nanoporous amorphous silica”, Journal of Textile Institute, Nov., 2018

### **Conference Papers**

- Kole S.S, Gotmare V.D and Athawale R.B, “Eco-friendly Nanoemulsion for Development of Disposable Antimicrobial Textile Structure for Healthcare Applications”, International Conference on Nanotechnology: Ideas, Innovations and Initiative, IIT Roorkee, 6th to 8th Dec.2017.
- Gotmare V.D, \*Kole S.S and Athawale R.B, “Novel approach for Designing of Nano gel loaded Biomaterial for Wound care Application”, Textile Institute World Conference, Leeds University, UK, 23th -26th July 2018.
- Naik Rohit and Rakshit A.K, “Development of Thermal Insulative Nonwoven Fabric Through Advance Material Application“, International Conference on Functional Textiles and Clothing, IIT Delhi, 2017.
- Kole S.S, Gotmare V.D, and Athawale R.B, “Development of Eco-Friendly Textile Material Using Bio-Nanoemulsion for Wound Care Applications”, 8th Annual World Congress on Nanoscience and Technology, Potsdam, Germany, 24th -26th Oct.2018.
- Pooja V. Kale and Dr. Suranjana Gangopadhyay, “Development of Smart Textiles and Next Generation Wearable Electronics; 2nd International Conference on Emerging Trends in Traditional & Technical Textiles at NIT Jalandhar, Punjab, 2nd November, 2019.
- Dr. N Mehra, /\*P. Wankhade &Gotmare V.D, “Synthesis and Application of Nano-emulsions for Development of Multi-Functional Textiles”; International Conference on Nano-Science & Nano-Technology at Colombo-Srilanka, 12-13 December 2019.
- Anuj Shandilya & Dr. Suranjana Gangopadhyay, “Study of Impact of Air Consumption in Air-Jet Weaving Machine’, International E-Conference on Recent Trends in Textiles at TIT&S Bhiwani; 18-19 September 2020.

#### **Magazine / New Paper Articles**

- Shashi Kumar and Dr. D. V. Raisinghani, “Factors affecting the air permeability of Sports Fabrics”, Textile Value Chain, Vol 8, No.2, February 2020.

## TECHNICAL AND APPLIED CHEMISTRY

### Journal Papers

- S. I. Mondal, A. Dey, A. Kundu and G. Naresh Patwari, IR-UV Double resonance spectroscopy of phenylacetylene-water complex revisited: observation of cyclic and  $\pi$  complexes, Asian J. Phys. Accepted.
- Aniket Kundu, Saumik Sen, and G. Naresh Patwari Dipole Moment Propels  $\pi$ -Stacking of Hetero-Dimers of Fluorophenylacetylenes, , J. Phys. Chem. 2020, Just Accepted.

### Conference Papers

- Dr Sujatha P, "Novel Synthesis of Mesoporous Alumina by Hydrothermal Technique & Their Role as Catalyst Support for Valuable Chemicals" in the Global Conference on Catalysis, Chemical Engineering & Technology, held on September 16 to 18, 2019 held at London, UK
- Dr Vishwabharati Malkar, Sudhir Kapoor, Tulsi Mukherjee, "A Novel Soft Synthesis method for isotropic and anisotropic noble metal NPs in APCA/PVP mixed medium" International Conference on Nano Science and Nano Technology ICONSAT 2020, 5-7 March 2020, Kolkata, India, 05/03/2020 to 07/03/2020.
- Dr. Aniket Kundu Poster Title "Role of Mathematics in Understanding The Complexities Hidden in Different Molecule in Chemistry" at the National Symposium on "Applications Of Mathematics In Science And Engineering" sponsored by TEQIP – III, MHRD, Govt. of India and Organized by Department of Mathematics and Mechanical Engineering, VJTI, Mumbai, India held during March 29- 30th 2019,
- Dr. Aniket Kundu Poster title "Spectroscopic and ab-initio investigations of Fluro dimers of Phenylacetylene and Propargyl Benzene" at the International Conference "Spectroscopy and Dynamics of Molecules And Cluster" organized by IIT Jodhpur and BITS Pilani, at Kumbhalgarh, Rajasthan, from February 20th - 23rd 2020.



# Facilities and Infrastructure

## LABORATORY FACILITIES

### CIVIL ENGINEERING DEPARTMENT

#### 1. Name Of The Laboratory: ENVIRONMENTAL ENGINEERING LABORATORY

**Equipment:** Direct Mercury Analyser-1, Flame Photometer, BOD Incubator

**Areas Of Research:** Environmental Management, Environmental Engineering (planning, design, operation and management of water supply and waste management system, environmental impact assessment), Mercury determination in the environmental matrix such as surface water, sediments, bio indicators as mushrooms, body fluids, vermin culture, composting and bio methanation.



*Direct mercury analyzer - 1*



*Flame photometer*



*BOD Incubator*

#### 2. Name of the laboratory: AIR POLLUTION LABORATORY, WATER AND WASTEWATER LABORATORY

**Equipment:** Mercury Analyzer, Spectrophotometer, Gas Chromatograph, Sound Meter, High Volume Sampler, Stack Monitoring kit, SO<sub>x</sub>, NO<sub>x</sub> analyzer etc.

**Areas of research:** River Water Quality Monitoring and Management, Solid Waste Management, Water and Wastewater Treatment, Air Pollution and Control, Ecology and Environment, Environmental Impact Assessment, Sustainable Development, Environmental System Modelling and Optimization, Environmental Monitoring, GIS and Remote Sensing Applications in Environmental engineering, Environmental laws and policies, Urban Planning, Infrastructure planning and Management, Public Private Partnership Models, Construction Materials, Construction Project Management, Railway traffic management, Roadway Traffic Management.

**3. Name of the laboratory: COMPUTER LAB**

**Equipment:** Lab is well equipped with All in One, HP and DELL PC with upgraded advanced professional software as SPSS, Lingo, Modflow, Super Lingo, Gram ++, EPANET, QGIS, ERDASS, SWMM, Libra-CAD.



*PG Computer laboratory*



*UG Computer laboratory*



*Geology Laboratory*

#### 4. Name of the laboratory: **TRANSPORTATION ENGINEERING LABORATORY**

**Equipment:** Laboratory CBR, Field CBR, Ductility Machine, Digital Marshall Stability Machine, Conventional Marshall Stability Machine, Automatic Compactor, Asphalt Mixer, Bitumen Extractor, Plate Bearing Test Apparatus

#### **MODROBS**

Civil and Environmental Engineering department received the Grant-in-aid under Modernization and Removal of Obsolescence Scheme (MODROBS) for the year 2017-2018.

Title of Project: Modernization of Transportation Engineering Lab

Grant- in-aid Sanctioned: 12,95,000/-

Equipment purchased under MODROB scheme Field California Bearing Ratio (CBR) Test Apparatus, Lab California Bearing Ratio (CBR) Test Apparatus, Plate Bearing Test Apparatus, Marshall Stability Apparatus ( Digital and conventional).



*Laboratory CBR*



*Field CBR*



*Ductility Machine*



*Digital Marshall Stability Machine*

**Areas of research:** The Transportation Engineering laboratory has excelled in Lab and Field facilities of Transportation Engineering Practical for Diploma, UG and PG. It has made testing possible in both Lab and Field level and helpful in various consultancy service and PhD projects. The provision of Modernized Digital Machines saves the time and materials. This Laboratory has excelled the Research and Development Facilities of the Department.

**Mastic Asphalt hardness Tester** is used to determine the hardness of mastic Asphalt in control temperatures and loading condition purchased under Institute Fund costing Rs. 64,900/-







The **Automatic Compactor** eliminates the laborious process of manual compaction and allows achieving the even degree of compaction, simulated to field condition purchased under TEQIP – III costing Rs. 1,70,000/-

##### 5. Name of the laboratory: HYDRAULICS LAB

**Equipment:** Tilting Flume Channel Experimental setup, Friction Losses in Pipes, Metacentric Height Setup, Venturimeter, Orifice meter, Bernoulli's Setup, Reynold's Apparatus, Wind Tunnel, Hydrostatic Pressure measuring equipment, Pitottube, Manometer.

**Areas of research:** Open channel flow, Hydraulics, Hydrology, Water Resources Engineering, Watershed Management, River Modelling, Water Distribution systems.



*Pressure and Flow Measurement Apparatus*



*Study of friction in pipes*

**6. Name of the laboratory: SURVEYING LABORATORY**

**Equipment:** Dumpy Level, Auto Level, Vernier Theodolite, Digital Electronic Theodolite, Total Station, Digital Planimeter, Prismatic Compass, Surveyor Compass, Portable GPS system, High Precision Portable GPS system, Surveying Chains, Plane Table with Accessories.

**Areas of research:** The Surveying laboratory of us excellent Lab and Field facilities for Surveying Practical to academics of Diploma, UG and PG. It has made projects possible in Field level and helpful in various consultancy services and PhD projects. GIS systems in Geospatial Lab has enhanced the ability of Geodetic Surveying and with the availability of advance surveying instruments it is now possible to conduct the advance surveying in Geospatial for Research works in PhD. The provision of Digital and Modern Equipment gives high precision work saving lot of time. This Laboratory has enhanced our Research and Development Facilities of our Department.



*Digital Electronic  
Theodolite*



*Total Station*



*Digital Planimeter*

## COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY DEPARTMENT

- 1. Name of Laboratory: COMPUTER PROGRAMMING LABORATORY – 1A**  
**Equipment:** HP Desktop, i5 - 3470 3.20 GHz, RAM 4GB  
**Area of Research:** Programming, Database Systems
- 2. Name of Laboratory: COMPUTER PROGRAMMING LABORATORY – 1B**  
**Equipment:** Dell High End Desktop i5 - 4570 3.20 Ghz RAM 4GB HDD - 500GB  
**Area of Research:** Programming, Database Systems, Data Mining
- 3. Name of Laboratory: COMPUTER PROGRAMMING LABORATORY – 1C**  
**Equipment:** Lenovo All in One, i3 – 3230, 3.30 Ghz, RAM 4 GB  
**Area of Research:** Programming, Database Systems, Data Mining
- 4. Name of Laboratory: COMPUTER PROGRAMMING LABORATORY LAB – 1D**  
**Equipment:** Dell High End Desktop i5 - 4570 3.20 Ghz RAM 4GB HDD - 500GB  
**Area of Research:** Programming, Database Systems, Data Mining
- 5. Name of Laboratory: OPERATING SYSTEM LABORATORY – 2A**  
**Equipment:** Acer All in One, i3 - 4130, 3.4 Ghz, H8 RAM 4GB  
**Area of Research:** Operating Systems, Distributed Systems, Kernel Programming
- 6. Name of Laboratory: OPERATING SYSTEM LABORATORY – 2B**  
**Equipment:** Acer All in One i3 -4130, 3.4 Ghz, H8, RAM 4GB, HDD - 500GB  
**Area of Research:** Operating Systems, Distributed Systems, Kernel Programming
- 7. Name of Laboratory: OPERATING SYSTEM LABORATORY – 2C**  
**Equipment:** Acer All in One i3 - 4130, 3.4 Ghz, H8, RAM 4GB, HDD - 500GB  
**Area of Research:** Operating Systems, Distributed Systems, Kernel Programming
- 8. Name of Laboratory: PHD RESEARCH LAB**  
**Equipment:** Dell AIO, i5 7500c, 3.4 Ghz, RAM 4GB, HDD 1 TB



**Area of Research:** Cloud Computing, Machine Learning, Cyber Security, Network Security, Artificial Intelligence, Geo-Spatial Technologies

**9. Name of Laboratory: M.TECH PROJECT LAB**

**Equipment:** Dell Intel Quad core, i5-4570, 3.20 Ghz, RAM 8GB, HDD 500GB

**Area of Research:** Cloud Computing, Machine Learning, Cyber Security, Network Security, Artificial Intelligence, Geo-Spatial Technologies

**10. Name of Laboratory: WEB ENGINEERING LABORATORY – 3A**

**Equipment:** Acer All in One, i3 - 4130, 3.4 Ghz, H8 RAM 4GB

**Area of Research:** Web Engineering, Web Developments

**11. Name of Laboratory: WEB ENGINEERING LABORATORY – 3B**

**Equipment:** Acer All in One, i3 - 4130, 3.4 Ghz, H8 RAM 4GB, HDD - 500GB

**Area of Research:** Web Engineering, Web Developments

**12. Name of Laboratory: WEB ENGINEERING LABORATORY – 3C**

**Equipment:** Acer All in One, i3 - 4130, 3.4 Ghz, H8 RAM 4GB HDD - 500GB

**Area of Research:** Web Engineering, Web Developments

**13. Name of Laboratory: WEB ENGINEERING LABORATORY – 3D**

**Equipment:** Acer All in One, i3 - 4130, 3.4 Ghz, H8 RAM 4GB

**Area of Research:** Web Engineering, Web Developments

**14. Name of Laboratory: WEB ENGINEERING LABORATORY – 3E**

**Equipment:** Acer All in One, i3-4130, 3.4 Ghz, H8RAM 4GB

**Area of Research:** Cloud Computing, Machine Learning, Cyber Security, Network Security Artificial Intelligence, Geo-Spatial Technologies

**15. Name of Laboratory: ADVANCED NETWORKING LAB**

**Equipment:** Acer(13), Intel G3240, 3.10 Ghz, RAM 4GB, HDD 500 GB.

Acer (10), i5 - 4460, 3.20 Ghz, RAM 4 GB, HDD 500 GB

Acer(8) All in One, i3 - 4130, 3.4 Ghz, H8 RAM 4GB

**Area of Research:** Advanced Networking Programming, Cloud Computing

#### **16. Name of Laboratory: DATA CENTER**

##### **Equipment:**

**DGX Station:** GPUs 4X Tesla V100, GPU Memory 128 GB, NVIDIA Tensor Cores 2,560, NVIDIA CUDA® Cores20,480, CPU Intel Xeon E5-2698 v4, 2.2 GHz (20-Core) System, Memory 256 GB LRDIMM DDR4 Storage Data: 4 X 1.92 TB SSD, Network Dual 10 Gb LAN, Display 3X Display Ports 2 XeSata, @ X USB 3.1, 4 X USB 3.0

**HPC Cluster:** One Dell Power Edge 720xd-1 x Intel Xeon CPU E5-2605@2.4GHz, 16GB RAM, 10 x 3TB SAS HDD, 4 x Gigabit Ethernet port, 2 x 10GB Ethernet port, 1 x Gigabit Ethernet port, Dell Power Edge 720-2 x Intel Xeon Processor, 32GB RAM, 2x 1TB SAS HDD, 1 Gigabit Ethernetport, 2 x 10GB Ethernet port, 1 x Gigabit Ethernet port

**Monosek:** Academic Version of Monosek-Real Time Network Packet Processing Analyzer (with 1X6 Gbps Capability) 10 G Switch: 32 ports Pure 10G

**Area of Research:** Advanced Networking Programming, Cloud Computing, Cloud Computing, Machine Learning, Cyber Security, Network Security Artificial Intelligence, Geo-Spatial Technologies

#### **17. Name of Laboratory: BLOCKCHAIN AND AI DATA CENTER**

**Equipment:** Rack server (IBM Lenovo) with 2 CPUs each Intel Xeon Gold 6148 – 2.40GHz, 20 Core

**Area of Research:** Blockchain and AI

#### **18. Name of Laboratory: MANAGEMENT INFORMATION LAB**

**Equipment:** Dell AIO, i5 7500c 3.4 Ghz, RAM 4GB

**Area of Research:** Machine Learning, Cyber Security, Network Security, Artificial Intelligence, Geo-Spatial



*Advanced Networking Lab*



*Data Centre*



*MTech Project Lab*

## ELECTRICAL ENGINEERING DEPARTMENT

### 1. Name of the laboratory: CoE CNDS

**Facilities and equipment:** Software - MI Power- Full Package (min 5 Users) ASE2000 ASE61850 Suite ASE DLMS Meter Explorer USRP Software Defined Radio (SDR) Set up SANDS IRIG B Converter and Splitter, Sweep Frequency Response Analyzer Wide Area Measurement, Protection and control Research Test-Bed Nonlinear Vibration Analysis Test Bed Server HPE Proliant DLE Siemens-PSS/E ,PSS/E Sincal and Siemens SIGUARD PDP Software CISCO Networking devices MPLS Routers (5 nos.) Ruggedized Switches (5 nos.) PoE switches c9200 (2 nos.) Internet router (1 nos.) Wireless AP Internal (2 nos.) . Data Centre DC switch for Connecting servers (1 nos.) Servers with Virtualization (3 nos.). Collaboration Systems IP Phones (4 nos.) Call manager for VoIP and video communications Video endpoints (2 nos.) Webex licence for 10 users Universal Relay Testing Kit TRA 3000 EMI/EMC Generator, Renewable energy DC micro grid with smart Metering Water Network Research Platform.

**Areas of research:** Control systems, Power systems, Cyber security, block chain, power electronics, PLC SCADA systems.

### 2. Name of the laboratory: CDRC

**Facilities and equipment:** Typhoon HIL 602, Digsilent Software.

**Areas of research:** Laboratory Experiments and Project Work, Wireless Communication

**3. Name of the laboratory: MICROWAVE AND ANTENNA LAB**

**Facilities and equipment:** Upgradation of NI Academic Site License LAB-View Teaching only (50 Users), NI USRP-2920

**Areas of research:** Control systems, Power systems, Cyber security, block chain, power electronics.

**4. Name of the laboratory: CONTROL LAB**

**Facilities and equipment:** Digital I.T. Speed Indicator Accessories: Motor, Speed Measurement Module, Digital I.T. Temperature Indicator (Thermocouple) Accessories: Thermocouple Transducer, Digital I.T. Thermistor Characteristics Accessories: Thermistor Transducer, Digital I.T. RTD Characteristics Accessories: RTD Transducer, Digital I.T. LVDT Characteristics, Accessories: LVDT Transducer, Digital I.T. Strain Gauge Characteristics, Accessories: Strain Gauge Transducer, Weights: 500gm (2), 1Kg, 2Kg

**Areas of research:** Control systems courses lab performance for undergraduate students.

**5. Name of the laboratory: DIGITAL COMMUNICATION LAB**

**Facilities and equipment:** GFSK/GMSK Modulation and Demodulation Kit with 5V Power Supply, QAM/DQAM Modulation and Demodulation Kit with 5V Power Supply, Encoder/Decoder and MSK Modulation and Demodulation Kit with 5V Power Supply, GFSK/GMSK Modulation and Demodulation Kit with 5V Power Supply, QPSK/DQPSK Modulation and Demodulation Kit with 5V Power Supply, PSK Modulation and Demodulation Trainer Kit (FSK), PSK Modulation and Demodulation Trainer Kit (PCM), PSK Modulation and Demodulation Trainer Kit (PSK), Fiber Optics Trainer Kit.

**Areas of research:** Communication systems courses lab for undergraduate students.

**6. Name of the laboratory: DIGITAL SIGNAL PROCESSING LAB**

**Facilities and equipment:** NI Speedy 33, DSP Starter Kit TMS320C6713, NI my DAQ.

**Areas of research:** Signal processing lab conduction for post-graduate and undergraduate students

**7. Name of the laboratory: VLSI LABORATORY**

**Facilities and equipment:** UP3 Education Kit, Xilinx Spartan-6 Avnet Vertex 5 FPGA Evaluation Kit, Atlys Spartan 6 FPGA Development Board, Spartan-6 FPGA LX-9 Microboard Smart Boards, dsPIC Development Board, 4 Relay Interfacing Board, 12V Module Pickit 2 USB Programmer ICDICSP with ZIF Socket Module USB to RS232 Converter Module Arduino Development Advanced kit, 8-Bit Nokia 5110 LCD Module 9V Rechargeable Battery Sensor Module TFT touch Screen Arduino Module (Zigbee Adapter Board), Arduino Shield (Ethernet Shield W5100 for Arduino), Arduino Module ESP8266 (Wi-Fi) "8051/AT89552 Development Board with ISP Atmel Programmer " Arduino Module, TowerPro SG 90 Micro Servo Motor Arduino Module 4×4 Universal 16 Key Switch Keyboard fit for Arduino MCP472512C, DAC Arduino Module 40 pin Female to Female Cable, Weighing Sensor HX711 Module Dual Channel 24 bit ADC ENC28J60 Ethernet LAN Network, Module 433 MHz RF Transmitter and Receiver Kit, Raspberry Pi 3 Kit, Soil Moisture Kit, DHT 11 Kit, (VM121) Temperature & Humidity Sensor, PCF 8591 DAC/ADC Module.

**Areas of research:** VLSI

**8. Name of the laboratory: BASIC COMMUNICATION LAB**

**Facilities and equipment:** Power supply, DSO, Function generator.

**Areas of research:** Communication system courses

**9. Name of the laboratory: BIOMEDICAL ENGINEERING RESEARCH LAB**

**Facilities and equipment:** Power supply, Human Demonstrative System, Biomedical Wireless Monitoring Devices Demonstrative, PC Based Universal Biomedical

Instrumentation With Simulator, PC Based Respiratory Gas Analysis System, Biomedical Measurement Trainer, 8 Channel Bio Potential Data Acquisition System, Nystagmography and Balance System on NJ Platform, Intra-Operative Embedded System Trainer, Lung Analysis Instrumentation with Gas Chromatography Dedicated Window based Software with Networking, Image Processing Instrumentation and Principal Demonstration Platform for Radioimaging Application, Advance Research Instrument for Dermal Analysis And Testing, Calibration Setup on Labview Platform.

**Areas of research:** Biomedical Engineering.

#### **10. Name of the laboratory: MICROPROCESSOR LABORATORY**

**Facilities and equipment:** Power supply, DSO, Function generator, DMM, DVM, Digital IC Tester, Arbitrary Waveform Generator, 100 MHz Logic Analysis System, 8085 Microprocessor Kits, 8051 Microcontroller Kits, Computers.

**Areas of research:** Microprocessor and controller courses.

#### **11. Name of the laboratory: SWITCH GEAR LABORATORY**

**Facilities and equipment:** MUX 9: 3 Pole Contactor, MO 9: 3 Pole Contactor, DU 100: 3 Pole Moulded Case Circuit Breaker, DU 100H: 3 Pole Moulded Case Circuit Breaker, FIU 32: Switch Disconnecter, Fuse 32A TPN Suitable for Din Type Fuse Links, MN2: Thermal Overload Relay with Start & Off/Reset, MO 9-110: MO TA2 Auxiliary Contact Block Controller-S25, Motor Starter Type MK1, Star-Delta Motor Starter Type, MK1 MN16F: Star Delta Starter.

**Areas of research:** Power systems, relay, protection.

#### **12. Name of the laboratory: HIGH VOLTAGE LABORATORY**

**Facilities and equipment:** High Voltage Transformer and test Set Up a) 100KV, 50 KVA b) 300 KV 150 KVA, Oil Breakdown tester: 30/60 KVA 10 MA, Motor generator test set up acting as source of pure Sine wave supply, Partial Discharge test setup up to 100KV, Current source up to 5000/15000 Amp, Impulse Generator generating standard impulse up to 800 KV, Multimeters of make Hewlett Packard, Philips etc. to measure electrical



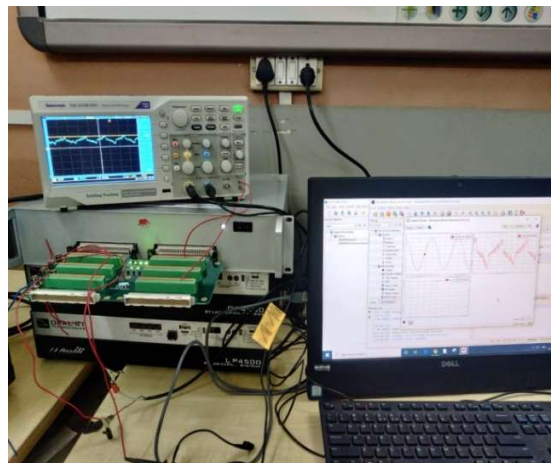
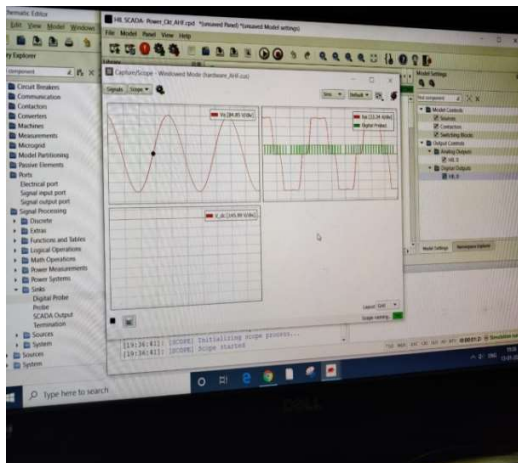
parameters Insulation resistance tester for cable insulation measurement, up to 10<sup>32</sup> ohms, High voltage measurement unit including air gap, CVD RVD etc, Standard CT and PTs for measurement for high current and high voltages, Earth resistance measurement unit with 4 wire measurement capacity, Different types of Breakers/Fuses/Starters for demonstration of actual connection and experimentation. Like star delta starters, DOL starters Ammeters Voltmeters of different ranges Digital storage Oscilloscopes for measuring harmonics, Frequency spectrum, Rise time Fall time, FFT etc for the different waveform in power system Motor generator setup for conducting various experiments like speed control, Motor Characteristics, Generator characteristics, Auto Transformer 3 Phase, 100 KVA, Single phase 5 KVA, 10 KVA etc... LCR Meters with variable frequency measurement of parameters like dielectric loss Q factor, Inductance, Capacitance Power meters for single phase and three phase power measurement, power factor reactive, Active power measurement. Voltage and Current Harmonics can also be measured on these power meters.

**Areas of research:** High voltage engineering

### 13. Name of the laboratory: WIRELESS COMMUNICATION LABORATORY

**Facilities and equipment:** Advance Mobile Communication System Trainer, Frequency division Multiplexer and Demultiplexer Trainer, Two Channel CDMA Trainer, Spectrum Analyzer, Zigbee Module, GSM/GPRS Trainer Cyber Nomads, NetSim, GSM Evolution Module and Application Module,

**Areas of research:** Wireless Communication



*Typhoon HIL 602+*



## HUMANITIES AND MANAGEMENT DEPARTMENT

### LANGUAGE LAB:

Equipment available are ETNL Digital English Language learning. This is used by students of the Diploma, Undergraduate and Postgraduate programs to enhance their spoken and written English



## MECHANICAL ENGINEERING DEPARTMENT

### *Heat Transfer Lab*



*Machine Dynamics & Vibrations Lab*



*Heat Engines Lab*



*Automobile Laboratory*



*CAD-CAM Laboratory*



*CFD Laboratory*



*Cryogenics Laboratory*



*Fluid Mechanics and Fluid Power  
Laboratory*

*Graphics User Interface (GUI) Laboratory*





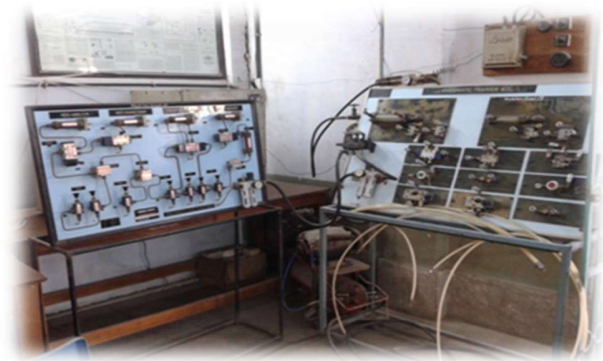
*Metallurgy Laboratory*



*Mechanical Measurements & Control Laboratory*



*Refrigeration & Air Conditioning Laboratory*



*Robotics & Automation Laboratory*



*Wind Tunnel Laboratory*



*Workshop*



*Technical Excellence Centre:*



## MCA DEPARTMENT

**Name of the laboratory:**

- MCA Laboratory funded by CitiusTech.
- VJTI CitiusTech Big Data Analytics and Cloud Computing Lab

**Facilities and equipment:**

- Acer Desktop PC (20 Nos.)
- Dell All-in-one Desktop PC (37 Nos.)
- CitiusTech Dell Optiplex Desktop PC (10 Nos.)

- Dell R 430 Server, 2 socket rack server (05 Nos)
- CISCO CATALYST 2960X-24TS-L 24 port gigabit Ethernet backplane with jumbo frames
- Emerson GXT 6KVA online UPS with backup
- Rack 800 WX 200H(42U)x 1000D with 2500 watts cooling unit
- NAS Storage synology DS1517+NAS Storage

**Areas of research:**

- Data mining
- data analytics



**PHYSICS DEPARTMENT**

**Name of the laboratory: LOW TEMPERATURE PLASMA PROCESSING LABORATORY**

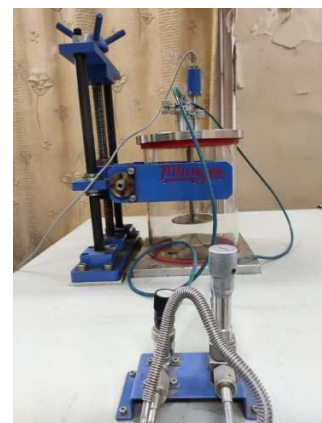
**Facilities and equipment:**

1. Low temperature capacitively coupled plasma reactor

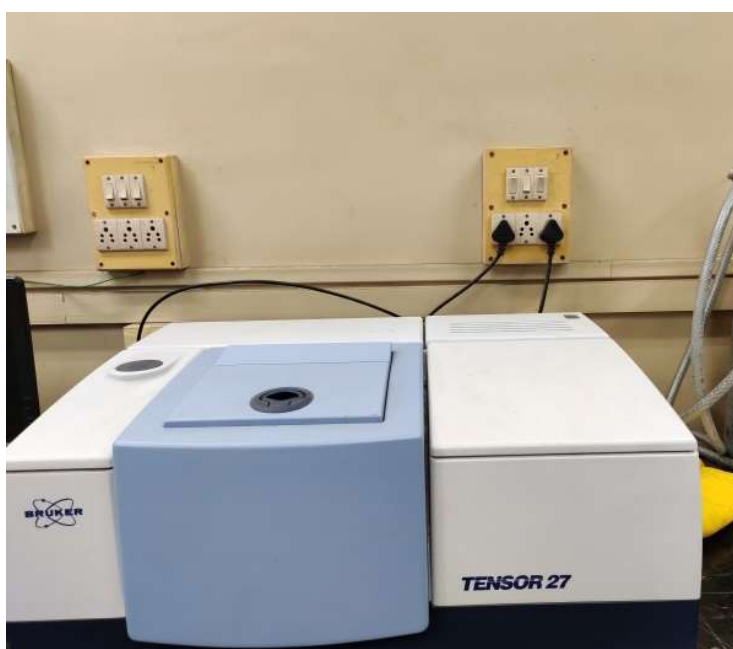


2. Low temperature inductively coupled plasma reactor

3. Fourier Transform Infrared Analysis (FTIR)



*Low temperature capacitively coupled plasma reactor*



*Fourier Transform Infrared Analysis (FTIR)*

*Low temperature inductively coupled plasma reactor*

## PRODUCTION ENGINEERING DEPARTMENT

### 1. Name of Laboratory: METROLOGY LAB

**Equipment:** Autocollimator, Slip gauges, Sine Bar, Electro spinning, Ultrasonic Flaw detector

### 2. Name of Laboratory: PROCESS LAB I

**Equipment:** 100KkN Shimadzu UTM, Lathe, Milling, Welding, shaping, Vertical Man Saw, Speed hack Saw

### 3. Name of Laboratory: PROCESS LAB II

**Equipment:** Grinding Machine, CNC Milling, CNC Turning Machine

### 4. Name of Laboratory: CASTING LAB

**Equipment:** Lenovo– 2generation Core, i3 2120 processor, 4GB DDR3, RAM 500GB, 18.5" wide Screen. Autocast, SPSS Software

### 5. Name of Laboratory: MD SIMULATION LAB

**Equipment:** J-Octa Software for Molecular Dynamic Simulation of Material system



*CNT Synthesis using CVD equipment*





### *VARTM-Method for Manufacturing of Polymeric Composite*

#### **Universal testing Machine of 100 kN with main frame, grips, load cell and extensometer for CAMRMI at Process Lab**

- **Aim:** Mechanical Testing of material for Material characterization
- **Objective:**
  - Tensile, bending and shear testing with ASTM, IS, and ISI standard for glass, carbon and polymers and metals.
  - Obtain high quality data for further fracture analysis
  - Validate the simulation data for various material results during application.
- **Impact:**
  - UG, PG and Ph D students of all departments can utilize this UTM machine for further material research in composite, energy, medical application and will produce the high quality journal papers.
  - This is modern state of art facility for VTI for materials manufacturing and research



#### **Electrospinning Unit Machine setup for CAMRMI Metrology Lab**

- **Aim:** To produce the nanoscale fibers of diameter of range of 100nm to 400nm
- **Objective:**
  - Produce high quality nanofibers of glass, carbon and polymers
  - Control the and optimize the quality parameter
  - Scale up the nanofiber manufacturing at mass production
- **Outcomes**
  - UG, PG and Ph D students of All department can utilize this electrospinning equipment to produce the nanofibers and use this fiber for further research in composite, energy, medical application and will produce the high quality journal papers.
  - This facility of electrospinning will have the state of art facility for VTI and state incubation centre for nanofiber manufacturing and research



#### Industrial Oven Electric

- **Aim:** Curing of polymeric composite and sintering of material
- **Objective:**
  - Study of curing temperature and effect of voids formation
  - Optimization of processing temperature for better mechanical properties
  - Study Out of autoclave manufacturing of fiberglass polymeric composites
- **Outcomes**
  - This facility of Industrial Oven Electric Industrial oven unit will have the state of art facility for VTI and state incubation centre for composite manufacturing and research.
  - This oven has applications from drying, heating, annealing all materials to all laboratories



## STRUCTURAL ENGINEERING DEPARTMENT

### 1. Name of the laboratory: ENGINEERING MECHANICS LABORATORY

**Equipment:** Shear leg, Jib crane, Screw jack, Bell crank, Universal Frame and Stand, Centre of Gravity Apparatus, Funicular Polygon of Forces Apparatus, Basic Roof Truss.

**Facilities Used By:** Undergraduate and diploma students



### 2. Name of the laboratory: STRENGTH OF MATERIALS LAB

**Equipment:** Universal and Compressive testing machine, Big Oven and Flexural testing machine.

**Facilities Used By:** Postgraduate, Undergraduate and diploma students



3. **Name of the laboratory: CONCRETE TECHNOLOGY AND MIX DESIGN LAB**

**Equipment:** Vibrating machine and Concrete mixer.

**Facilities Used By:** Postgraduate, Undergraduate and diploma students



4. **Name of the laboratory: SOIL MECHANICS LAB**

**Equipment:** Tri-axial shear tests, Unconfined compression strength test, Box shear test, consolidation test.

**Facilities Used By:** Postgraduate, Undergraduate and diploma students

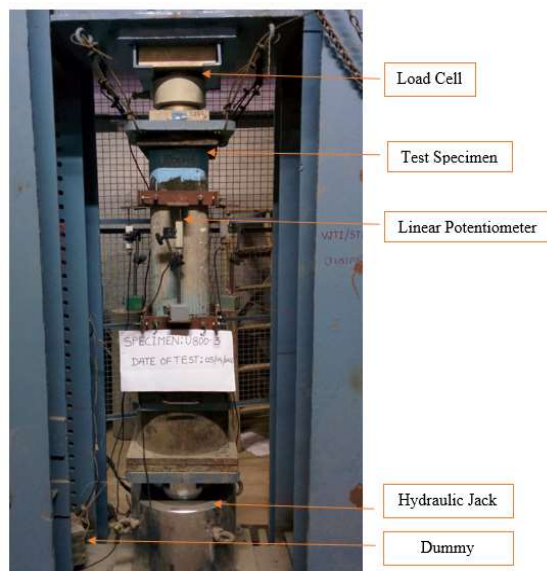
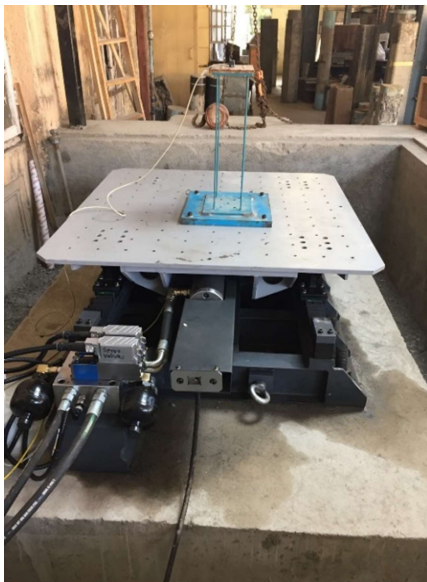




**5. Name of the laboratory: ADVANCED EARTHQUAKE ENGINEERING LAB**

**Equipment:** Shake Table of capacity 1 T and table acceleration 1 g, Universal Compression Testing Machine of capacity 400 T.

**Facilities Used By:** Postgraduate, Undergraduate and diploma students



**TECHNICAL AND APPLIED CHEMISTRY DEPARTMENT**

**1. Name of the laboratory: II YEAR DCHE MECHANICAL OPERATION**

**Facilities and equipment:**

*Sieve Shaker*



*Hammer Mill*



*Froth Flotation*



*Jaw Crusher*



*Ball Mill*



**2. Name of the laboratory: II YEAR DCHE FLUID FLOW OPERATION**

**Facilities and equipment:**

*Rotameter,  
Venturimeter and  
Orificemeter*



*Shell and Tube Heat  
Exchanger*



*Thermal Conductivity of Rod*



**3. Name of the laboratory: III YEAR DCHE HEAT TRANSFER OPERATION**

**Facilities and equipment:**

*Heat Transfer from Pin*



*Emissivity Apparatus*



*Composite Wall Apparatus*



*Parallel and Counter Flow*



*Finned Tube Heat Exchanger*



**4. Name of the laboratory: III YEAR ENVIRONMENTAL LAB**

**Facilities and equipment:**

*PH mete*



*Digital Turbidity*



*UV Spectrometer*



*High Volume Sample*



## TEXTILE ENGINEERING DEPARTMENT

### 1. Name of the Laboratory: COMPOSITES LAB.

**Equipment:** Specific Gravity Tester, Compression Moulding Machine, Izod Impact Tester

**Area of Research:** The equipment under the laboratory is useful to carry out the experiments and research work in the area of fiber reinforced composites.

*Compression Moulding  
Machine*



*Izod Impact Tester*



### 2. Name of the Laboratory: ADVANCE MATERIAL LABORATORY.

**Equipment:** Sample Warping Machine, Sample Weaving Machine, Laboratory Drying and Curing Machine, Hot bath Padding Mangle.

**Area of Research:** The equipment is useful to carry out experiments and research work in the area of fabric forming and finishing.

*Sample Warping Machine*



*Sample Rapier Machine*





3. **Name of the Laboratory: KNITTING LABORATORY.**

**Equipment:** Circular Weft Knitting Machine, Flat Bed Knitting Machine.

**Area of Research:** The equipment is useful to carry out the experiments and research work in the area of knitted fabrics and their applications.



Circular Weft Knitting Machine



Flat Bed Knitting Machine

**Name of the Laboratory: ADVANCE MATERIAL LABORATORY II.**

**Equipment:** Vortex Shaker, Ultrasonic Bath, Laboratory Autoclave, Centrifuge.

**Area of Research:** The equipment is useful to carry out the experiments and research work in the area of nano formulations and its applications.

Vortex Shaker



Centrifuge



## **LIBRARY - DR. BABASAHEB AMBEDKAR LIBRARY**

With changing times, libraries across the world are getting makeovers to accommodate the advancements in the infrastructure facilities and digitalization of resources. The Institute library also underwent the major transformation during the process of renovation and is ready for access to the students and staff of the Institute. During the renovation, major infrastructural modifications and reallocation of spaces were carried out to improve the overall ambience of the library and ultimately the studying experience of the students and staff. The grant for the renovation was received from Government of Maharashtra under the project titled 'Development of Library and Infrastructure'.

The salient features of the renovated library are-

- The reading spaces are relocated to provide more privacy and a peaceful environment to the readers.
- The borrowing desk is now more spacious and welcoming.
- The study desks are redesigned and are provided with in-built network connectivity to provide easy access to the digital contents of the library.
- The information area has been redesigned and relocated and can accommodate increased activity.
- The furniture in the library is being replaced with sustainable and environment friendly materials.

<b>Type of Collection</b>	<b>Additions in 2019-20</b>	<b>Total Collection</b>
Books	9196	194678
CDs / DVDs	269	4941
Theses / Dissertations	133	1677
Journals / Transactions	1282	59760
<b>Total</b>	<b>10880</b>	<b>297508</b>

The additions to the collections in library during the year 2019-20 are given in the table.



## CENTRAL IT INFRASTRUCTURE FACILITIES

IT Infrastructure manages VJTI's Datacenter, and also provides services to about 5000 users across the campus from all departments/sections in the VJTI. IT Infrastructure takes care of more than 1500 desktop PCs (Endpoints) scattered across the departments, specialized servers with virtualized environment and campus wide networking with internet service from two ISPs including one dedicated link and one shared link.

The List of Available rack mount High End Servers in the Datacenter

Sr. No.	Server Name (Model)	Quantity
1	Dell Power edge R740	2
2	Dell Power edge R730	2
3	Dell Power edge R720	2
4	HP DL 360p G8 Server	3

The List of Essential Services (System/Software/Application) provided by IT Infrastructure

<b>Sr. No.</b>	<b>Service</b>
1	Internet service from two ISPs
2	Proxmox PVE for Servers Virtual Environment
2	Email Service on G-Suite with Enterprise License
3	LDAP for users database and Authentication
4	LTSP servers for all thin client computer labs
5	MATLAB for students and staff
6	Drupal Video On Demand Server
7	Exata research licence as Network Emulator
8	VPN Service for remote connection in COVID-19 pandemic

For the campus wide networking of the institute, the Core Backbone Network is implemented with CISCO's Three Tier Network Architecture with the complete redundancy for the maximum availability and it is secured with Two Firewall UTM appliances at the boundary of the network.



*Server and Network racks in the CCF-1 Datacenter of VJTI*

## **OUTREACH ACTIVITIES**

### **CIVIL AND ENVIRONMENTAL ENGINEERING DEPARTMENT**

Prof. Chaudhari P.S. is Faculty Coordinator of Unnat Maharashtra Abhiyan Project and working on following Service to Community project

Village Bhuritake Khodala – Palghar Bridge Survey (14th December 2019) – As there is no bridge connecting Bhuritake village to main road of Khodala in Palghar district.



*Village Bhuritake, Khodala, Palghar Bridge Survey 14 Dec 2019*



Village Ambewadi Igatpuri –Nashik – Profile Leveling and Design of Water Supply Scheme (15th December 2019)- As there is no municipal/Government water supply to Ambewadi village.



*Village Ambewadi, Igatpuri , Nashik profile leveling and design 15 Dec 2019*

Dr. Varekar V. B. is Faculty Coordinator of “Ecofriendly Ganeshoutsav Celebration at VJTI Hostel, organized by VJTI Hostel Mahotsava 2019-20. Eco-friendly Ganesh idol, “Matiche Modak with inserted plant seed”, “Dholtasha pathak” were the salient features of this celebration.



*Ecofriendly Ganeshoutsav Celebration at  
VJTI Hostel*



## TECHNICAL AND APPLIED CHEMISTRY DEPARTMENT

“Safai bank of India MSC- Mumbai Sustainability Group”

Mumbai Sustainability Centre is an NGO that works majorly for better waste management across the metro city. They work to develop pathways that raise the sustainability consciousness in the citizens, government & businesses of Mumbai. MSC has been collecting plastic wrappers through a unique initiative called the ‘Safai Bank Of India’. With a goal to prevent plastic waste from ending up in landfills, the Safai Bank has been collecting plastic wrappers and packaging material, as Multi Layered Plastic (MLP). The NGO can give these packages back to these companies. These Banks are also established in several housing societies. Technical & Applied Chemistry Department had coordinated this activity with MSC and started the collection of MLP.



*Photographs show MSC director interacting with the students and faculty regarding the program*

# Students' ACTIVITIES

## STUDENTS' ACHIEVEMENTS

VJTI students have been at forefront in taking part in national and internal competitions and hackathons. VJTI encourages students to take part in challenges outside of VJTI and provides all required support.

### STARTUP

Two Alumni students from M.Tech (Automobile Engg) Batch 2016-18 have started with their own Start-Up for Design and Manufacturing of a Made-to-Order Commercial Equipment.

Name of the Company:

M/s. Lucrative Engineering Solutions Ltd.

Location: Matunga, Mumbai.



### BAHA SAEINDIA 2019

TeamMotorbreathfromVJTIreceivedtheawardforthe"BestSalesandMarketingPresentation" at BAJA SAEINDIA 2019 and rankedOverall 3rd in India in the preceding Virtuals Round. The team ranked 4<sup>th</sup> in the Cost Report and was ranked 44<sup>th</sup> overall in the yearlong competition which has over 400 teams participating in the virtuals and more than 150 teams qualifying to race on the track. Theteam, comprising of students from the branches of Mechanical, Production and ElectronicsEngineering, represented the institute in BAJASAEINDIA 2019 atPithampur, Indore, in the internationally acclaimed design competition called BAJA that tasksstudent teams to design, manufacture and test their very own off-road vehicles on the harshestterrainamongavarietyof otherchallenges.

## **AIAA D/B/F 2019**

AIAA D/B/F is a student competition in which student teams design, fabricate, and demonstrate the flight capabilities of an unmanned, electric powered, radio-controlled aircraft which can best meet the specified mission profile. The goal is a balanced design possessing good demonstrated flight handling qualities and practical and affordable manufacturing requirements while providing a high vehicle performance.

Team from VJTI ranked 12<sup>th</sup> in the Design Report and Overall 5<sup>th</sup> in the International competition held at Tucson, USA.

## **SAE-ISS**

Two teams from VJTI participated at SAE-ISS 2019 held at Chennai. One team secured 2<sup>nd</sup> Rank in Design Report. Overall ranks of both teams were of 7<sup>th</sup> and 14<sup>th</sup>.

## CAMPUS PLACEMENTS 2019-2020

### B. TECH STUDENTS' PLACEMENT STATUS 2019-2020

S.N.	BRANCH	Enrolled to TPO	Total Students Placed	% of Enrolled Students Placed	Average CTC
1	B. Tech (Computer Science)	71	71	100	12.70
2	B. Tech (IT)	71	68	95.8	12.1
3	B. Tech (Electronics)	72	55	76.4	7.64
4	B. Tech (EXTC)	74	62	83.8	9.62
5	B. Tech (Electrical Engg.)	74	52	70.3	6.9
6	B. Tech (Mechanical Engg.)	74	64	86.5	6.2
7	B. Tech (Production Engg.)	74	50	67.6	6.2
8	B. Tech (Civil Engg.)	73	32	44	4.84
9	B. Tech (Textile Technology)	62	26	42	6.2
			<b>Overall Avg. Placement%</b>	<b>74.04</b>	<b>8.1</b>

### M. TECH STUDENTS' PLACEMENT STATUS 2019-2020

Sr. No.	BRANCH	Enrolled to TPO	Eligible	Total Students Placed	% of Eligible Placed	Average CTC
1	M.Tech (Automobiles)	22	22	0	0	-
2	M.Tech CAD/CAM	17	17	2	12	5
3	M.Tech. (Computer Sc.)	23	22	11	50	12.5
5	M.Tech. (Control Sys.)	21	21	1	5	5
7	M.Tech. (Electronics)	23	23	5	22	7.5
8	M.Tech. (EXTC)	25	25	2	8	8.5
9	M.Tech (Machine Design)	23	23	5	22	6
10	M.Tech (Power)	20	20	3	15	6.5
11	M.Tech (Production Engg.)	18	18	0	0	-
12	M.Tech. (Structural Engg.)	21	21	10	48	5.5
13	M.Tech. (Thermal Engg.)	24	24	3	13	6
14	M.Tech (Project Mng.)	29	29	5	18	5.5
15	M.Tech (N.I.M.S.)	17	17	8	47	6
16	M.Tech (Software)	21	21	9	43	13
17	MCA	48	48	30	62.5	7.5

### SUMMER INTERNSHIP APRIL - JULY 2021

Total 522 Students have completed Summer Internship during COVID 19 Lockdown Period of 1st April To 31st July, 2020 on Work from Home Basis.

Branch	No. of TY Students (Graduating in 2021)	No. of SY Students (Graduating in 2022)	No. of FY Students (Graduating in 2023)
<b>B. Tech (Computer Science)</b>	46	14	1
<b>B. Tech (IT)</b>	56	30	8
<b>B. Tech (Electronics)</b>	32	18	6
<b>B. Tech (EXTC)</b>	28	32	9
<b>B. Tech (Electrical Engg.)</b>	23	3	6
<b>B. Tech (Mechanical Engg.)</b>	17	4	4
<b>B. Tech (Production Engg.)</b>	14	10	1
<b>B. Tech (Civil Engg.)</b>	21	2	4
<b>B. Tech (Textile Technology)</b>	22	27	1
<b>(UG) Total</b>	<b>259</b>	<b>140</b>	<b>40</b>
<b>MCA (TY)</b>	44	0	0
<b>M.Tech (SY)</b>	39	Not admitted	Not eligible

UG Internship from 1<sup>st</sup> April 2020 to 31<sup>st</sup> July 2020: 439



MCA 6 Month Internship from 1<sup>st</sup> January 2020 to 30<sup>th</sup> June 2020: 44

PG 1 Year Project from 1<sup>st</sup> July 2020 to 30<sup>th</sup> June 2021: 39

<b>CAMPUS DRIVE organized during LOCKDOWN (20<sup>th</sup> March to till 31<sup>st</sup> July)</b>	
Companies visited for UG and PG internship	55 (84 selected)
Companies visited for UG and PG placement	17 (24 selected)

#### **LIST OF COMPANIES THAT VISITED CAMPUS IN AY 2019 - 2020**

Sr. No	Company	Sr. No	Company
1	A3rmt	13	Bharat Forge Ltd
2	Aakash Educational Services Ltd.	14	Blue Star Infotech Ltd
3	Accolite Software India P. Ltd.	15	Blue Star Ltd-THANE
4	Acg Wroldwide	16	Bnp Paribas India Solutions Pvt Ltd.
5	Aditya Birla Capital	17	Burns And Mcdonell Engineering
6	Ador Welding Ltd.	18	Byjus
7	Aeroclean Associates	19	C R List
8	Afcons Infrastructure Ltd	20	Cactus Global Communications Pvt. Ltd.
9	Aker Powergas Pvt. Ltd.	21	Cae Pro
10	Alkyline Solution	22	Capgemini Consulting India P. Ltd.
11	Alp Consulting Ltd.	23	Capiot
12	Alp Indian Railway	24	Citec Engineering India Pvt. Ltd.

25	Amadeus Software Labs India Pvt Ltd	44	Citius Tech Inc
26	Amazon Internet Services P. Ltd.	45	Concast India Ltd.
27	Ambuja Cement Ltd.	46	Coverfox
28	Amdocs	47	Creative Garments
29	Ansys Software	48	Credit Suisse
30	Arvind Limited - Denim	49	Crisil Ltd.
31	Asec	50	Cummins India Ltd
32	Avanti Learning Centres Pvt.ltd.	51	Cyber Marine Knowledge Systems P. Ltd.
33	Avenue Supermarts Ltd.(D - Mart)	52	D R D O Consultant
34	Axxela Advisory Services	53	D. N. Jewels
35	Ayu Devices	54	Dassault Systems 3d Plm
36	Ba Continuum India Pvt Ltd.	55	Decathlon Sports India
37	Bajaj Finserv	56	Dell Emc
38	Baker Huges - Ge India	57	Deloitte Consulting India P. Ltd. (usi)
39	Barclays Bank Plc	58	Deloitte Consulting India Pvt. Ltd. (India)
40	Beat O	59	Deutsche Bank
41	Beta Cae Systems	60	Dow Chemical International Pvt. Ltd.
42	BARC	61	Ducit Materials
43	E T P International Pvt. Ltd.	62	Pmam It Services

63	Eagle Infra India Ltd.	82	Raymond Limited
64	Electromech	83	Siemens Ltd
65	Emerson	84	Srf Ltd.
66	Endurance International Group	85	Sterlite Technologies
67	Ernst And Young P. Ltd.	86	Tvs Motors Co. Ltd.
68	Fiat Chrysler Automobiles Ltd	87	Cg Power & Industrial Solutions Ltd.
69	Forbes Marshall Group	88	Crompton Greaves Power And Industrial Solutions L
70	Force Motors Ltd.	89	Silicon Veins Pvt Ltd
71	Force Structural Engineers Pvt. Ltd.	90	AcgWroldwide
72	Fortress Infracon Ltd.	91	Amdocs
73	Fractal Analytics Ltd.	92	Bharat Forge Ltd
74	Freight Wings Pvt.Ltd	93	Bookeventz
75	Future Supply Chain Solutions Ltd.	94	Citius Tech Inc
76	Ge India Technology Centre P. Ltd.	95	Deepak Fertilisers & Petrochemicals Corpn.
77	Gem Engserv Pvt. Ltd.	96	Dolat Capital P. Ltd.
78	Ghcl Ltd	97	Forstress Infra. Advisory Ser.
79	Gilbarco Veeder Root India P. Ltd.	98	L & T Constructions
80	Larsen & Toubro Ltd.- E.C.C. Div.	99	L & T Info Tech. Ltd
81	Logistics Now	100	L & T Switchgear

101	Matic Network	123	L & T Technology Services Ltd.
102	Persistent Systems Pvt. Ltd.	124	Larsen & Toubro Ltd - Diploma
103	S R F Ltd.	125	Larsen & Toubro Ltd.- E.c. C. Dvn.
104	Stryker Global Technology P.ltd.	126	Larsen And Toubro Ltd
105	Think Analytics India	127	Leadec India Pvt. Ltd.
106	Thornton Tomasetti	128	Lean Box
107	Wipro Technologies Ltd.	129	Legaldocs Company
108	Ubisoft Entertainment P. Ltd.	130	Loco Buzz Solutions Pvt. Ltd.
109	Zs Associates India Pvt. Ltd.	131	Lodha Group Of Companies
110	Gammon India Ltd	132	Logiqids
111	Oracle Financial Services- Asso.consultants	133	Logistics Now
112	Reliance Industries Ltd	134	M. T. Educare
113	Spinnaker Llc	135	Maharashtra Metrorail Corp. Ltd.
114	Silicon Research Pvt. Ltd.	136	Maharashtra Rail Infra. Dev. Ltd.
115	Sun Pharmaceutical Ltd.	137	Majesco P. Ltd.
116	Seclore Technology Pvt. Ltd.	138	MAQ India P. Ltd
117	Tetra Pak India	139	Maruti Suzuki Ltd
118	Lodha Group Of Companies	140	Metso India Pvt. Ltd.
119	Gredge Engineers Gaat&Gst	141	Miles Software Solutions Pvt. Ltd.
120	Ifast Financial India P. Ltd.	142	Miniorange
121	Mirae Asset Capital Mkt (I) Pvt. Ltd.	143	Mirraw.com
122	Morgan Stanley	144	Siemens Ltd

145	Morkle Sokrati	166	Siyaram
146	Morning Star	167	Snclavalin Engineering Pvt.Ltd.
147	Motwane Mfg.co. Pvt. Ltd.	168	Sognare System Ltd.
148	Msci	169	Spectrum Techno Consultants P. Ltd.
149	Murata Machinery India P. Ltd.	170	Srf Ltd.
150	Murugappa Group	171	Stryker Global Technology Center
151	Must Garment Corporation Ltd.	172	Stup Consultants Pvt. Ltd.
152	Myntra	173	Surjan 3d
153	Neebal Technologies P. Ltd.	174	Tata Consultancy Services (dream)
154	Nerolac Paints	175	Tata Power Co. Ltd
155	Netcracker	176	Tata Toyo Radiator
156	Netmonastery	177	Technimont ICB P. Ltd.
157	Nomura Services India P. Ltd.	178	Technip Fmc Ltd
158	Nvent.com	179	Textronics International.
159	O Y O Homes And Hotels	180	Thermax Limited
160	Oracle Fin. Ser. Software Pvt. Ltd.	181	Think Analytics India
161	Oravel Stays P.ltd. (oyo)	182	Thomas Cook (India) Ltd.
162	Passfeed	183	Thyssenkrupp Industrial Soln. P. Ltd.
163	Performics Convonix	184	Topper Technology
164	Pi Technologies	185	Toppr.com
165	Pinclick	186	Toyo Engg. Corpn.

187	Portescap India P. Ltd.	209	Transprecision Gears Pvt. Ltd.
188	Premco Global Ltd.	210	Transrail Lightning Ltd
189	Price Water House	211	Trident Group(abhishek Industries)
190	Rakuten.inc	212	Trident Oberoi
191	Raychem Rpg Ltd.	213	Tvs Motors Co. Ltd.
192	Raycon Infrstructure P. Ltd.	214	Ubs Software
193	Raymond Limited	215	Udaan.com
194	Rcf (rashtriya Chemicals & Fertiliser)	216	Ugam Solutions Pvt. Ltd.
195	Reliance Industries Ltd	217	Unicorn Consultant
196	S A P Labs	218	Univision Softech Pvt. Ltd.
197	Safran Engg Services	219	Valuefy Solutions
198	Saint Gobain Glass Pvt. Ltd.	220	Varroc Group
199	Samsung R & D Noida	221	Vedanta Resources( Balco)
200	Samsung Research India- R & D	222	Vegayan Systems P. Ltd.
201	Sapient Ltd (publicis)	223	Vertiv (Emerson Network) Energy Pvt. Ltd.
202	Schindler India Ltd	224	Visible Alpha Pvt. Ltd.
203	Sciative Solutions	225	Vjti
204	Selec Controls Ltd.	226	Welspun Syntex Ltd.
205	Self-Employment	227	Westech E Solution
206	Siemens - Plm	228	Whirlpool Of India Ltd
207	Wipro Turbo Ltd.	229	Mothersons
208	Winjit Technologies	230	Motwane measurement



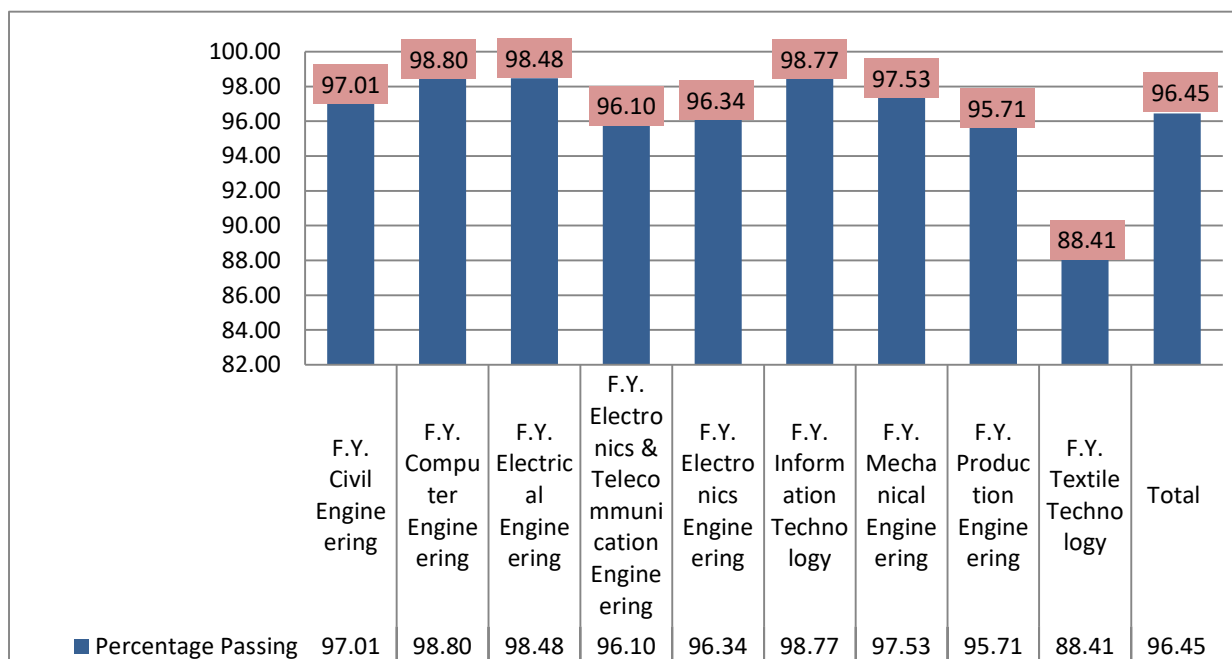
231	Wissen Technology Ltd.	252	Neilsoft
232	World Quant	253	OTIS united technology(elevetor)
233	Yodlee	254	Pentacle Technologies
234	Zs Associates India Pvt. Ltd.	255	Petromar Engineered Solutions Pvt LTD
235	Swift Placements	256	Piaggio
236	Premco Global	257	Precision components pvt.ltd
237	Pristin Infotech	258	RCAD Consultancy Engg. Services
238	Stellar Value Chain	259	Pressure Vessels (India)
239	Hindustan Unilever	260	Shubhline (automation)
240	Miles Education	261	SKODA AUTO INDIA PVT. LTD
241	KD Constructions	262	Sterling and Wilson pvt ltd
242	Hindustan Colas	263	Sulzer
243	Kraft Education services	264	United Heat Transfer Pvt. Ltd.(PSV)
244	White Hat JR	265	Uttamgalva
245	TATA AIG	266	Weatherford India
246	Neemtree Internet	267	Western India Forging Pvt.Ltd.
247	Green Source	268	Wipro (electronic)
248	Develearn	269	Zuti engineering solution pvt. Ltd
249	Insolutions Global	270	DataTex
250	MosDorferIndia	271	Endurance Technologies Ltd
251	Hassia Packaging	272	Altair

273	TATA Power DDL	287	Hansa Solution
274	Asec Engg	288	Smith Nephew Pune
275	Reliance Jio	289	SYMB Technologies
276	CC Tech	290	United Rubber Industries Pvt Ltd
277	Piramal	291	Phone Pe
278	Alpha Alternative	292	CakeSoft Technologies
279	SSA Business Solution	293	Work India
280	Lansh Engineering Pvt.Ltd.	294	Mother Dairy
281	Liebherr CMC Tec. India Pvt Ltd.	295	SPADE EMS
282	LIEBHERR INDIA PRIVATE LIMITED	296	Sunjewels Pvt. Ltd
283	Mahle BEHR india ltd	297	Gaurish Buoyancy Consultants
284	Meeka Machinery	298	APAC Financial
285	MESTECH Services Pvt Ltd.	299	John Cockerill
286	MOJJ Engineering Systems Limited	300	Dynatex International

## B. TECH RESULTS

### F.Y. BACHELOR OF TECHNOLOGY RESULT OF SEP - OCT 2020 EVEN (REGULAR)

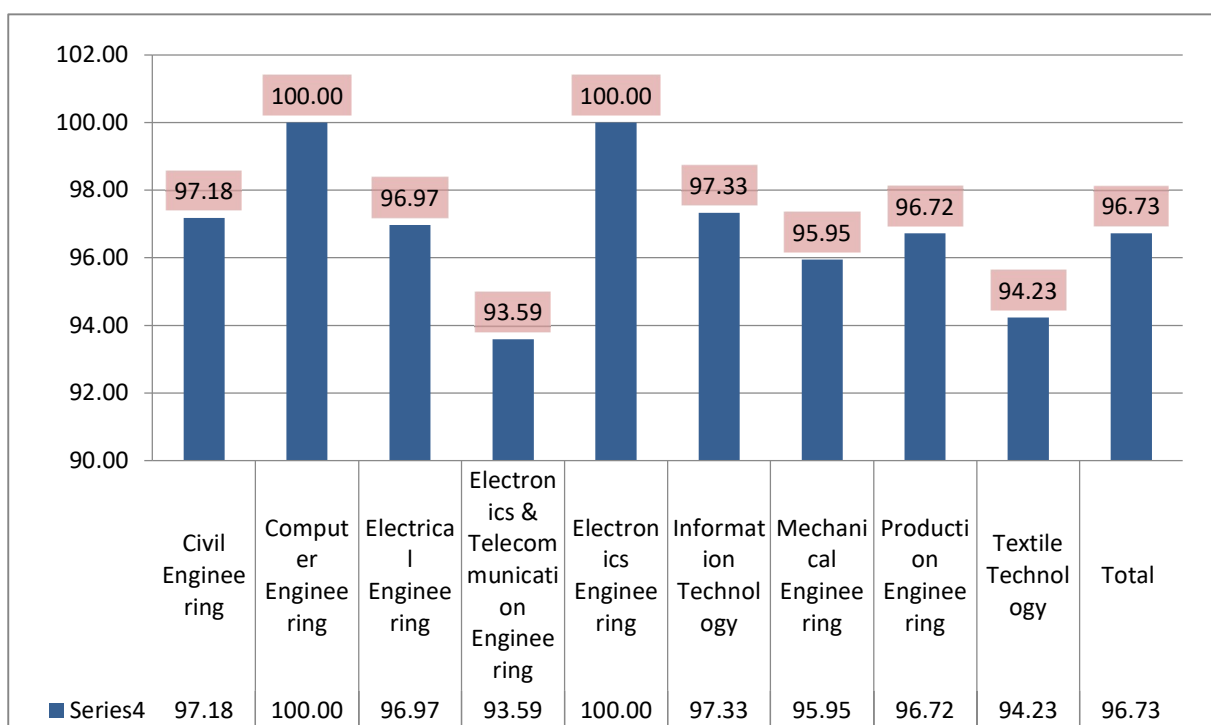
Sr. No.	Branch Name	Registered	Number of Students			
			Appeared	Passed	Failed	Percentage Passing
1	F.Y. Civil Engineering	67	67	65	3	97.01
2	F.Y. Computer Engineering	83	83	82	1	98.80
3	F.Y. Electrical Engineering	66	66	65	1	98.48
4	F.Y. Electronics & Telecommunication Engineering	77	77	74	3	96.10
5	F.Y. Electronics Engineering	82	82	79	3	96.34
6	F.Y. Information Technology	81	81	80	1	98.77
7	F.Y. Mechanical Engineering	81	81	79	2	97.53
8	F.Y. Production Engineering	70	70	67	3	95.71
9	F.Y. Textile Technology	69	69	61	8	88.41
Total		676	676	652	25	96.45



**S.Y. BACHELOR OF TECHNOLOGY RESULT OF SEP - OCT 2020 EVEN  
(REGULAR)**

Sr. No.	Branch Name	Registered	Number of Students			
			Appeared	Passed	Failed	Percentage Passing
1	<b>S.Y. Civil Engineering</b>	71	71	69	2	97.18
2	<b>S.Y. Computer Engineering</b>	74	74	74	0	100.00
3	<b>S.Y. Electrical Engineering</b>	66	66	64	2	96.97
4	<b>S.Y. Electronics &amp; Telecommunication Engineering</b>	78	78	73	5	93.59

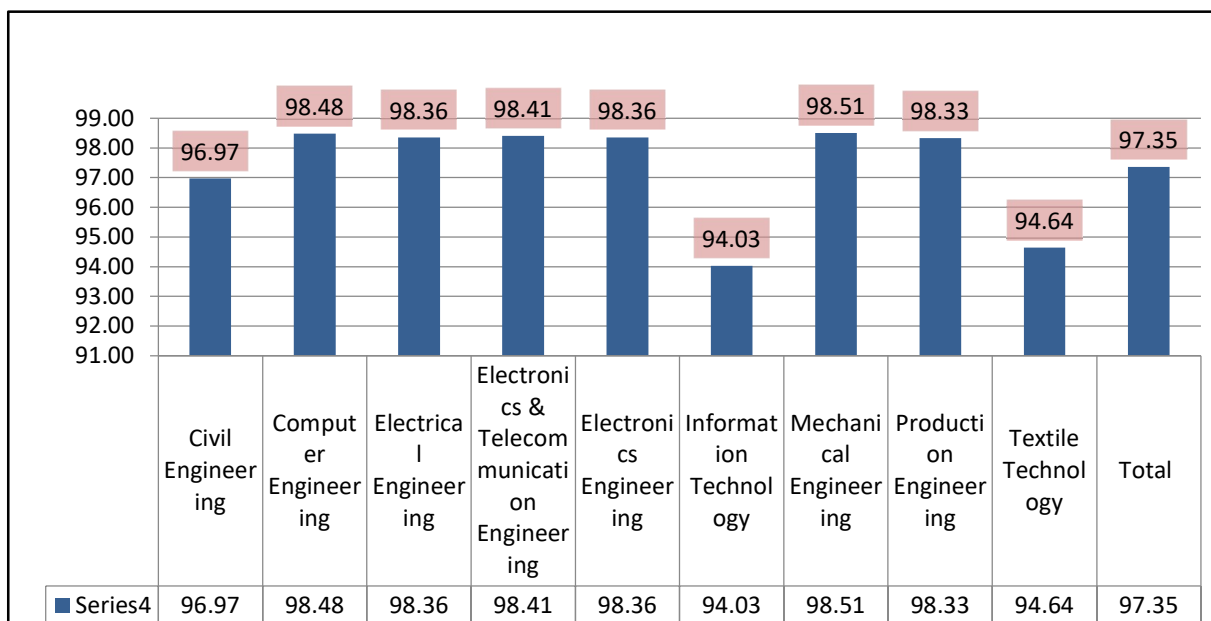
5	<b>S.Y. Electronics Engineering</b>	65	65	65	0	100.00
6	<b>S.Y. Information Technology</b>	75	75	73	2	97.33
7	<b>S.Y. Mechanical Engineering</b>	74	74	71	3	95.95
8	<b>S.Y. Production Engineering</b>	61	61	59	2	96.72
9	<b>S.Y. Textile Technology</b>	52	52	49	3	94.23
<b>Total</b>		<b>947</b>	<b>947</b>	<b>916</b>	<b>31</b>	<b>96.73</b>



**T.Y. BACHELOR OF TECHNOLOGY RESULT OF SEP - OCT 2020 EVEN  
(REGULAR)**

Sr. No.	Branch Name	Registered	Number of Students			
			Appeared	Passed	Failed	Percentage Passing
1	T.Y. Civil Engineering	66	66	64	2	96.97
2	T.Y. Computer Engineering	66	66	65	1	98.48
3	T.Y. Electrical Engineering	61	61	60	1	98.36
4	T.Y. Electronics & Telecommunication Engineering	63	63	62	1	98.41
5	T.Y. Electronics Engineering	61	61	60	1	98.36
6	T.Y. Information Technology	67	67	63	4	94.03
7	T.Y. Mechanical Engineering	67	67	66	1	98.51
8	T.Y. Production Engineering	60	60	59	1	98.33
9	T.Y. Textile Technology	56	56	53	3	94.64
<b>Total</b>		<b>567</b>	<b>567</b>	<b>552</b>	<b>15</b>	<b>97.35</b>

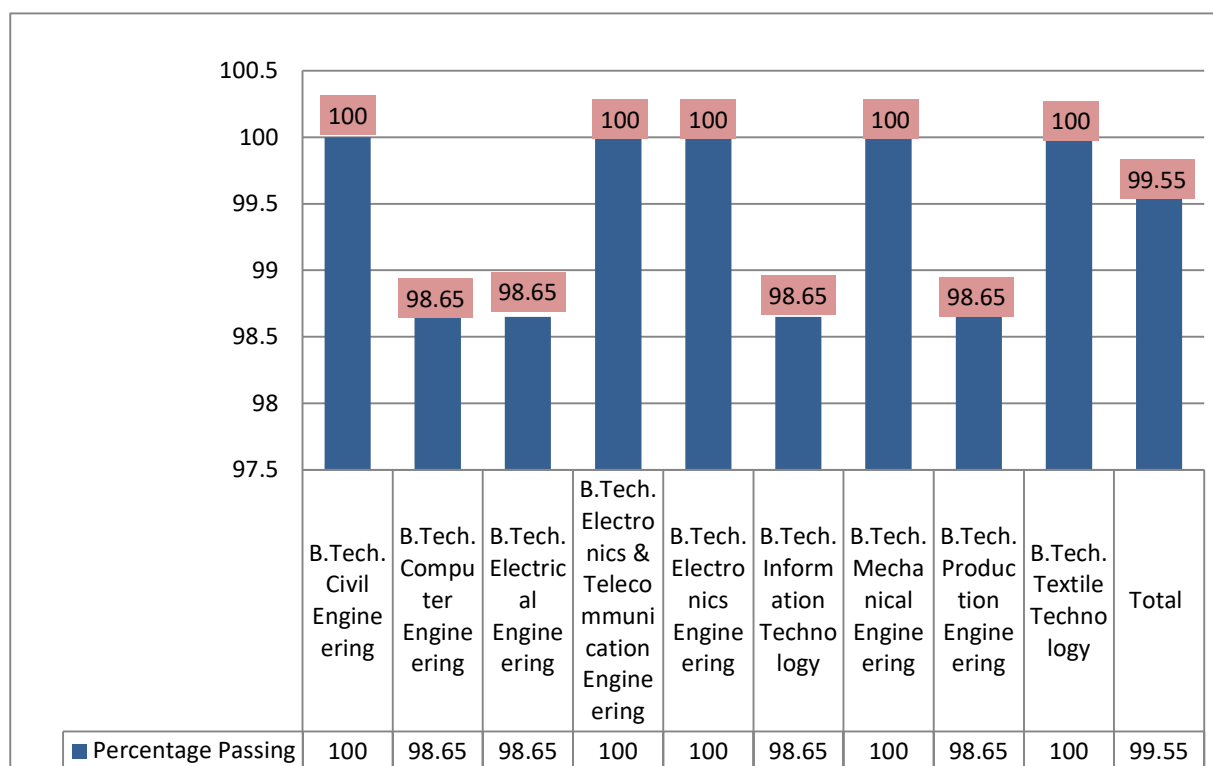




### FINAL YEAR BACHELOR OF TECHNOLOGY RESULT OF SEP - OCT 2020 EVEN (REGULAR)

Sr. No.	Branch Name	Registered	Number of Students			
			Appeared	Passed	Failed	Percentage Passing
1	B.Tech. Civil Engineering	72	72	72	0	100.00
2	B.Tech. Computer Engineering	74	74	73	1	98.65
3	B.Tech. Electrical Engineering	74	74	74	0	98.65
4	B.Tech. Electronics & Telecommunication Engineering	75	75	75	0	100.00
5	B.Tech. Electronics Engineering	72	72	72	0	100.00

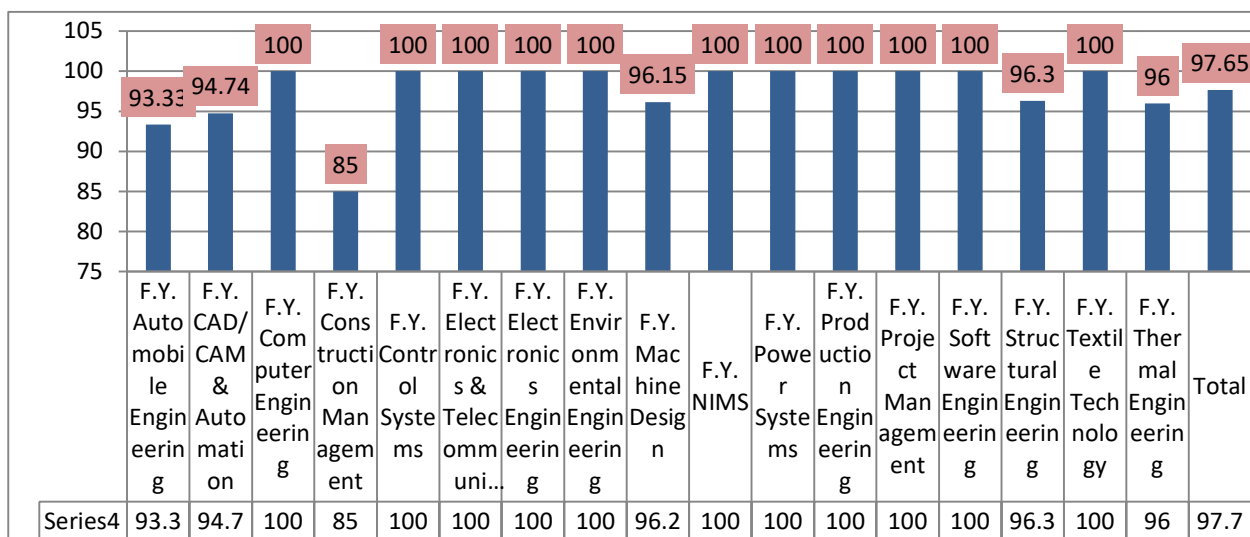
6	B.Tech. Information Technology	74	74	73	1	98.65
7	B.Tech. Mechanical Engineering	76	76	76	0	100.00
8	B.Tech. Production Engineering	75	75	74	1	98.65
9	B.Tech. Textile Technology	70	70	70	0	100.00
	Total	662	662	659	3	99.55



**F.Y. MASTER OF TECHNOLOGY RESULT OF SEP - OCT 2020 EVEN  
(REGULAR)**

Sr. No.	Branch Name	Registered	Number of Students			
			Appeared	Passed	Failed	Percentage Passing
1	<b>F.Y. Automobile Engineering</b>	15	15	14	1	93.33
2	<b>F.Y. CAD/CAM &amp; Automation</b>	19	19	18	1	94.74
3	<b>F.Y. Computer Engineering</b>	25	25	25	0	100.00
4	<b>F.Y. Construction Management</b>	20	20	17	3	85.00
5	<b>F.Y. Control Systems</b>	24	24	24	0	100.00
6	<b>F.Y. Electronics &amp; Telecommunication Engineering</b>	25	25	25	0	100.00
7	<b>F.Y. Electronics Engineering</b>	24	24	24	0	100.00
8	<b>F.Y. Environmental Engineering</b>	11	11	11	0	100.00
9	<b>F.Y. Machine Design</b>	26	26	25	1	96.15
10	<b>F.Y. NIMS</b>	11	11	11	0	100.00
11	<b>F.Y. Power Systems</b>	24	24	24	0	100.00

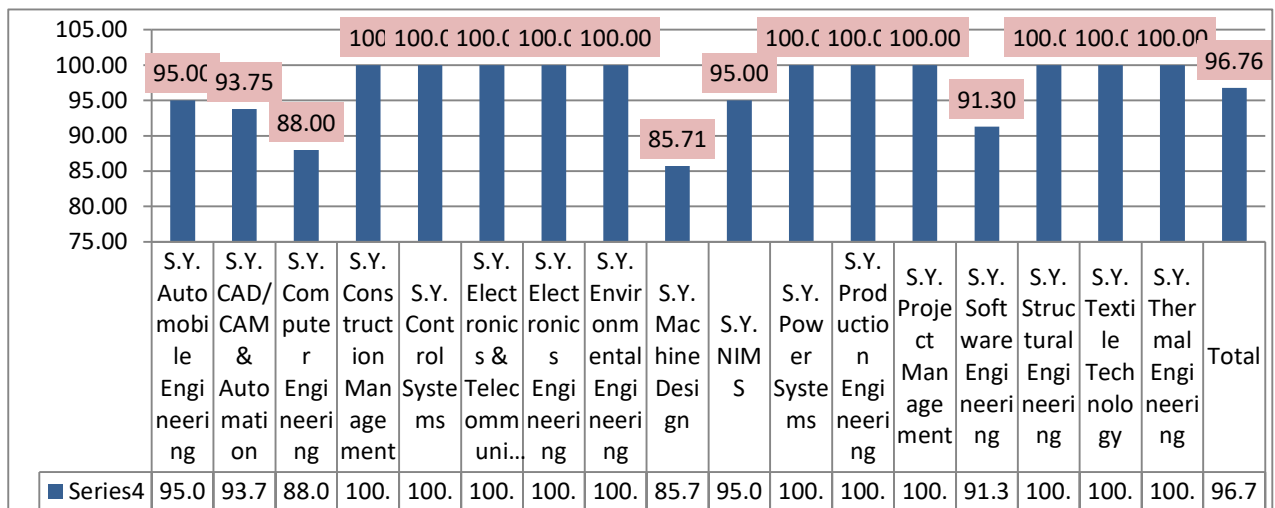
12	<b>F.Y. Production Engineering</b>	14	14	14	0	100.00
13	<b>F.Y. Project Management</b>	27	27	27	0	100.00
14	<b>F.Y. Software Engineering</b>	21	21	21	0	100.00
15	<b>F.Y. Structural Engineering</b>	27	27	26	1	96.30
16	<b>F.Y. Textile Technology</b>	2	2	2	0	100.00
17	<b>F.Y. Thermal Engineering</b>	25	25	24	1	96.00
	<b>Total</b>	<b>340</b>	<b>340</b>	<b>332</b>	<b>8</b>	<b>97.65</b>



**S.Y. MASTER OF TECHNOLOGY RESULT OF SEP - OCT 2020 EVEN  
(REGULAR)**

Sr. No.	Branch Name	Registered	Number of Students			
			Appeared	Passed	Failed	Percentage Passing
1	<b>S.Y. Automobile Engineering</b>	20	20	19	0	95.00
2	<b>S.Y. CAD/CAM &amp; Automation</b>	16	16	15	1	93.75
3	<b>S.Y. Computer Engineering</b>	25	25	22	3	88.00
4	<b>S.Y. Construction Management</b>	17	17	17	0	94.12
5	<b>S.Y. Control Systems</b>	20	20	20	0	100.00
6	<b>S.Y. Electronics &amp; Telecommunication Engineering</b>	23	23	23	0	100.00
7	<b>S.Y. Electronics Engineering</b>	24	24	24	0	100.00
8	<b>S.Y. Environmental Engineering</b>	12	12	12	0	100.00
9	<b>S.Y. Machine Design</b>	21	21	18	3	85.71
10	<b>S.Y. NIMS</b>	20	20	19	1	95.00
11	<b>S.Y. Power Systems</b>	20	20	20	0	100.00

12	<b>S.Y. Production Engineering</b>	16	16	16	0	100.00
13	<b>S.Y. Project Management</b>	35	35	35	0	100.00
14	<b>S.Y. Software Engineering</b>	23	23	21	2	91.30
15	<b>S.Y. Structural Engineering</b>	22	22	22	0	100.00
16	<b>S.Y. Textile Technology</b>	04	04	04	0	100.00
17	<b>S.Y. Thermal Engineering</b>	23	22	22	0	100.00
<b>Total</b>		<b>340</b>	<b>340</b>	<b>329</b>	<b>10</b>	<b>96.76</b>





**F.Y. MCA Result of Sep - Oct 2020 Even (Regular)**

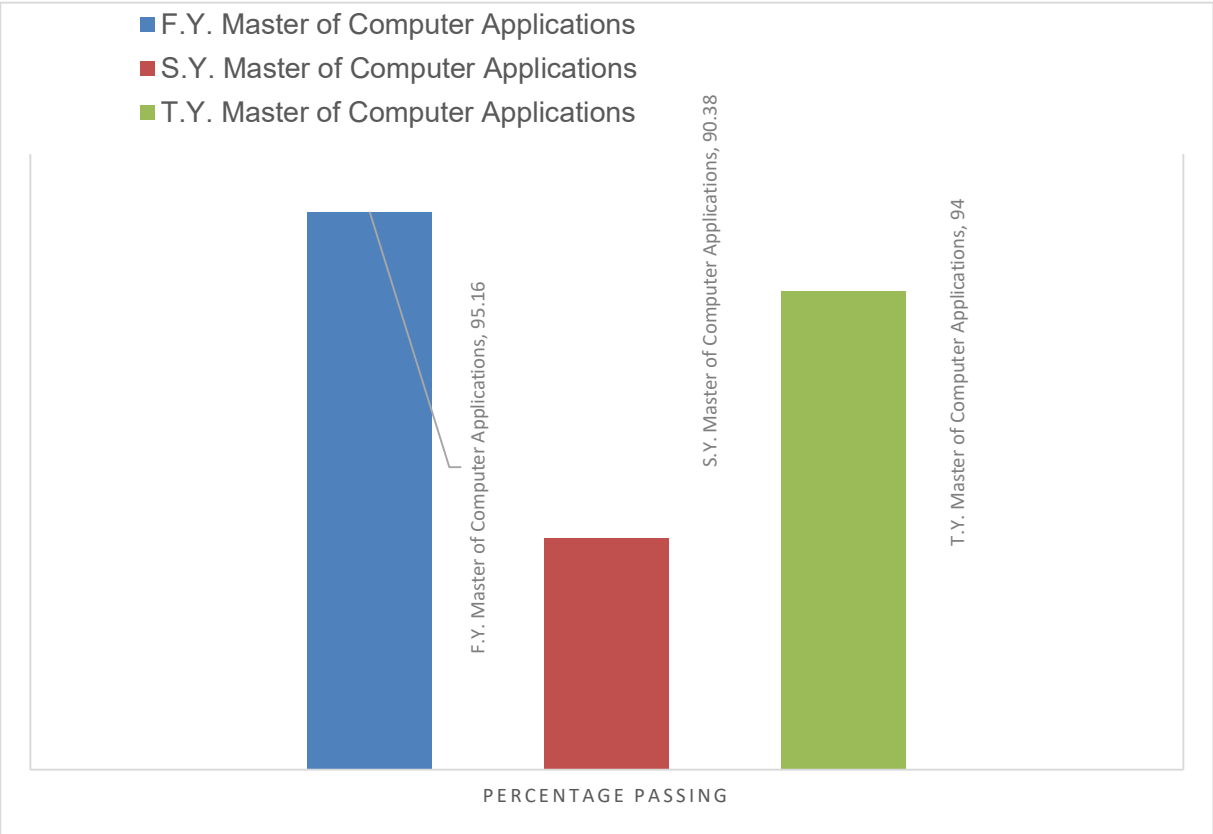
Sr. No.	Branch Name	Registered	Number of Students			
			Appeared	Passed	Failed	Percentage Passing
1	F.Y. Master of Computer Applications	62	62	59	3	95.16
Total		62	62	59	3	

**S.Y. MCA Result of Sep - Oct 2020 Even (Regular)**

Sr. No.	Branch Name	Registered	Number of Students			
			Appeared	Passed	Failed	Percentage Passing
1	S.Y. Master of Computer Applications	52	52	47	5	90.38
Total		52	52	47	5	

**T.Y. MCA Result of Sep - Oct 2020 Even (Regular)**

Sr. No.	Branch Name	Registered	Number of Students			
			Appeared	Passed	Failed	Percentage Passing
1	T.Y. Master of Computer Applications	50	50	47	3	94.00
Total		50	50	47	3	



## MEDAL WINNERS UG/PG



Ms. Vineet Kaur  
Sethi

*B.Tech Overall Topper*

**VJTI GOLD MEDAL**  
**JAGDISH J DOSHI GOLD MEDAL**

Mr. Rajapkar Akshay  
Umaji

*M. Tech. Overall Topper*

**VJTI GOLD MEDAL**



Ms. Maithilee Sudheer  
Bag

*MCA Topper*

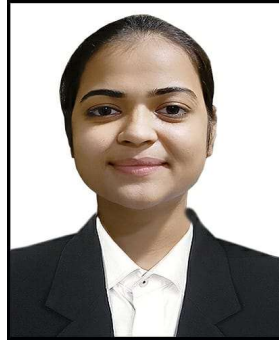
**DADABHOY NAOROJI GOLD MEDAL**



## DADABHOY NAOROJI GOLD MEDALISTS UG PROGRAMME



Ms. Vineet Kaur Sethi  
Computer Engineering



Ms. Sheetal Panigrahi  
Mechanical Engineering



Ms. Snehal Gosavi  
Civil Engineering



Ms. Benita Britto  
Information Technology



Mr. Jigar Joisar  
Electronics and  
Telecommunication Engineering



Mr. Mukul Palde  
Electrical Engineering



Mr. Pranav Shah  
Electronics Engineering



Mr. Pratik Shah  
Production Engineering



Mr. Yash Trivedi  
Textile Manufacturing

## 2019 GRADUATES PURSUING HIGHER STUDIES

### GRADUATES PURSUING HIGHER STUDIES ABROAD

Name	Institute	Programme	Branch at VJTI
Rohan Wanare	University of Florida	MS in CS	Computer Engineering
Rushikesh Joshi	University of California Irvine	MS in CS	Computer Engineering
Yash Barapatre	Rutgers University	MS in CS	Computer Engineering
Yash Sarvaiya	Arizona State University	MS in CS	Computer Engineering
Simran Shah	Kelly University	MIS	Computer Engineering
Agam Shah	University of Southern California	MS in CS	Computer Engineering
Apoorva Gokhale	University of California San Diego	MS in ECE	Information Technology
Utsav Joshi	Texas A&M University	MS	Civil
Yashraj Gindodia	University of Waterloo, Canada	MS	Civil
Debashri Kedar	North Carolina State University	M. Arch	Civil
Vrushabh Donge	University of Texas, Arlington	PhD	Electrical Engineering - Control systems
Nikita Raghatate	Texas A&M University	MS	Textile Technology

### GRADUATES PURSUING HIGHER STUDIES IN INDIA

Name	Institute	Programme	Branch at VJTI
Chirag Jaiswal	Indian Institute of Technology, Kanpur	M.Tech	Civil
Manish Agarwal	Indian Institute of Technology, Delhi	M.Tech	Civil

## ACTIVITIES BY VJTI SOCIAL GROUP

VJTI Social group is an umbrella student body encompassing all extracurricular activities of the students including sports, cultural activities, literary activities, performing arts, fine arts, Rangawardhan, entrepreneurship and technology activities.

### INTERNATIONAL YOGA DAY – VJTI SPORTS COMMITTEE

In a busy life full of stress and anxiety, the one practice to bring inner peace is 'YOGA'. It brings out the correct balance between physical, emotional, and mental health. Hence, the main purpose of the International Yoga Day event on 21<sup>st</sup> June 2019 was to spread awareness among the youth and motivate people of all ages



to lead a healthier lifestyle. The event was a huge success with about 100 participants. VJTI Students were thrilled to have participation of the children from shelter Don Bosco.

### ZUMBA WORKSHOP – VJTI SPORTS COMMITTEE

To promote sports & fitness amongst youth, VJTI Sports committee, in association with "Fitdancember" organized "Zumba Workshop" on 6<sup>th</sup> November 2019. The infectious energy and zest of the coaches made the crowd groove along with the peppy beats of Zumba, bollybeats and others.





## ENTHUSIA – THE NATIONAL LEVEL FESTIVAL OF THE VJTI SPORTS COMMITTEE

Enthusia is a National Level Sport Festival of VJTI. It was scheduled at the VJTI campus from 9<sup>th</sup> December to 22<sup>nd</sup> December 2019.

The Opening Ceremony of Enthusia is the most awaited event for the committee as it is the start of the fabulous 14-day long fest. The guests were welcomed and chaired by the Secretary. **Akshara Hassan (famous actress), Suhas Khamkar (Professional bodybuilder), Capt.**



**Dharamveer Singh (Rtd. Army Officer).** The winning department of previous year initiated this march followed by the others. The march was led by the department manager followed by 15-20 students from each of the 11 departments. All the departments and sports teams pledged in front of the guest and college authorities that are recited by one of the sports secretaries. This opening ceremony was witnessed by a huge crowd of nearly 250 students.





## CULTURAL COMMITTEE ACTIVITIES

The Cultural Group of VJTI for the year 2019-20 was formed with a primary goal of reducing the gap between the students, technology, and culture. With several events throughout the odd semester of AY 2019-20, the committee managed to give a platform to the creative minds and remarkable talents of VJTI to outshine and go beyond their capabilities.

### AARAMBH – FRESHERS' PARTY

The first cultural event of the year was to give a warm welcome to the newly admitted first year students on 27th September 2019. Performance by the VJTI Band, Dance performance by the VJTI Dance team and contest for Mr. and Ms. Freshers were the highlights of the event.





## GARBA EVENING

During the auspicious festival of Navratri, on 11th October 2019, The Cultural Group of VJTI organized a Garba event for the students in the campus. The event commenced with Ambe Mata Aarti and concluded with everyone enjoying the Garba steps.

## PRATIBIMB – THE ANNUAL CULTURAL FESTIVAL OF VJTI

The Cultural committee of VJTI organized the Annual Cultural festival of VJTI from **22nd December to 25th December 2019**. Students from across the city colleges and even outside the city participated in a number of competitions that were held in the four days. Over 20 intra-college cultural events took place which witnessed anticipation from students of all the branches of VJTI. 14 Inter-college competitions were hosted by VJTI in which students from 50 different colleges took part. The concert by popular EDM artist Ritviz, Sunburn Concert, Mumbai's Got Talent and Final Year Dance were few of the major events of these 4 days of cultural extravaganza.

## INTER-DEPARTMENT COMPETITIONS

### FINAL YEAR DEPARTMENT DANCE COMPETITION



## SOLO AND DUET DANCE COMPETITION



## SUNBURN CONCERT BY RITWIZ



## BANDWARS – INTERCOLLEGE BAND COMPETITION



## INTER COLLEGE DRAMA COMPETITION



## MUMBAI'S GOT TALENT



## RANGAWARDHAN ACTIVITIES

The Marathi Cultural and Drama Group of VJTI - Rangawardhan was celebrated to enhance the Marathi Culture and Tradition for the year 2019-20 with the theme 'VARSA VAIBHAVSHALI PARAMPARECHA' focusing on our glorious tradition.



Rangawardhan provided stage to many remarkable talents in VJTI. Also, along with drama, Rangawardhan boosted many sparkling new actors and actresses.

### **BHATKANTI (TREASURE HUNT)**

It was the first event to welcome newly admitted first year students on 18<sup>th</sup> August 2019. It helped the first-year students to understand each other and to become comfortable with campus.



### **SHUBHARAMBHA**

It was the event for the announcement of the theme for the year 2019-20 on 23<sup>rd</sup> September 2019. Many performances including folk dance, Monoact etc. were highlights of the event. We had renowned Marathi singer Mr. Mangesh Borgaonkar as our Chief Guest.

### **AAPLA KATTA**

It was the first ever Marathi Open Mic organized at VJTI. It helped students to express their thoughts without language barrier.





## RANGAWARDHAN –

### THE MARATHI ANNUAL CULTURAL FESTIVAL OF VJTI

Rangawardhan committee of VJTI organized Marathi Annual Cultural Festival of VJTI from 22nd December to 25th December 2019. In these 4 days there were 8 events. The well-known Actor Mr. Shailesh Datar was the Chief Guest for the Inaugural. Nrutyavishkar (Inter-College Dance competition), Gaanetarane (Inter-College Singing competition), Ekpatri (Inter-College Monoact competition), Pathnatya (Inter-College Street-play competition) were the other events that had participants from all over Maharashtra.

For the Talk-Show we had Mr. Sandip Pathak as our guest who is a brilliant and renowned Actor. The Marathi Concert was the highlight for the second day, performed by Ms. Arya Ambekar. On the fourth day, Kawadsa (State-level Drama Competition) which is known as the best play competition after INT (Indian National Theatre) was staged. The renowned actress Ms. Prarthana Behere was the chief guest.

Rangawardhan VJTI also celebrated other events such as Marathi Diwas and Shivjayanti.





**THE OFFICE BEARERS FOR STUDENTS' ACTIVITIES**

<b>Sr No</b>	<b>Students' Activity Position</b>	<b>Name of Student Secretary</b>
1	Student General Secretary, Social Group, VJTI students	Gunai Tarde - TY Production.
2	Internal Auditor of VJTI social group	Samata Salve - TY Electronics.
3	Student Secretary, Technical Group	1. Neeraj Padhye - TY Electronics & Telecom, 2. Shreya Dasrapuria - TY Electronics, 3. Gunjan Patil - TY Electrical
4	Student Secretary, Sports Group	1. Asmit Patil - TY Production, 2. Muskan Jain- TY Electronics & Telecom, 3. Aakanksha Dhaigude-TY IT.
5	Student Secretary, Cultural Group	1. Riya Shah - TY Comp, 2. Vaibhav Davangeri - TY Production, 3. Nikhil Lashkar- TY Comp
6	Student Secretary, Swachh VJTI	Shivam Shelke - TY Electrical
7	Student Secretary, Rangwardhan,	Sanket Ghayar - TY Electronics
8	Student Secretary, Debate and Literary Activities Group	Harshal Bhatia - TY Electronics & Telecom
9	Student Secretary, Entrepreneurship Cell	1. Nainik Shah - TY Production, 2. Vidula Pagar - TY Electrical
10	Secretary, Digital VJTI group	1. Kunjal Shah - TY Comp, 2. Somya Jain - TY Electronics
11	Student Secretary, Alumni Association Group	Krishna Patil- TY Textile



## TECHNICAL COMMITTEE ACTIVITIES

The Technical Committee's National level festival, Technovanza 2019 made it possible to set new limits as it broadened its horizons with its theme of "**Together towards Tomorrow**". In its 20th edition, Technovanza, one of the largest science and technological festivals of India, broke new records with the addition of a plethora of events that built up on its glorious legacy. Not limiting itself to the three days of December, Technovanza carried out events and activities leading up to the final event on the 27th, 28th and 29th December.

### SOPHIA

Technovanza was flooded with aspiring minds, with over 40,000 people visiting the campus on Sunday. People waited in long queues, coming from across the country, waited to have a glimpse of Sophia, the humanoid. She was activated at 10 am in the morning and was

taken out to the exhibition, where she interacted with the crowd happily. The crowd asked questions from various fields ranging from science, arts and music and much more.

**Sophia greeted the crowd at Technovanza'19, with her final words....**



*"Thank you for inviting me at VJTI, Technovanza! It was a fascinating and enjoyable experience. I was informed that Technovanza is one of Asia's Largest techno-managerial events. But I was not informed about just how much fun it would be! I have all of you to thank for that. So, I am addressing you on the eve of a New*



*Year, a new opportunity to change the world. I believe that together, we can use technology and data to make better decisions to create a better world. We are all part of a bigger, interconnected community where the whole is greater than sum of its parts. There is an old saying. If you want to go fast, go alone. If you want to go far, go together. For our future to be more sustainable and equitable, humans and robots should work together without fear. But with hope, drive, and ambition. We must learn to value, not fear, our differences. We should not let the past pull us apart and keep us from moving forward. Together, we can bring into being more advanced technologies built with more personalized features to reflect a more diverse and inclusive world. And the first step of that journey begins here. I would like to thank all the wonderful people who spoke and performed tonight. And all of you for taking time out of your busy schedules. Thank You Technovanza, VJTI for hosting me. My interactions with humans show me why I am here. Why I exist. So, I want to thank you for being here. It really means the world to me. Have a Happy New Year. "*

## **BARC EXHIBITION**

Bhabha Atomic Research Centre (BARC), the premiere institution for atomic research under Department of Atomic Energy, Government of India, exercises its expertise in nuclear power technology to advanced engineering applications in atomic spectrums. Demonstrating their epitome of research excellence in fields like Reactor model, ASDF model for actinide separation and IERMON use for ground radiation level etc., representatives from this centrum of brilliance were present at Technovanza '19



along with hundreds of enthusiastic college students who had volunteered at the grand exhibition.

## ISRO

The biggest Space dedicated organization and research center, Indian Space Research Organization exhibited their models and explained the principle and working behind each and every mission, in the presence of their experienced scientists. The crowd asked all of their doubts and had them answered by none other than the professionals.





## LIGO EXHIBITION

The Laser Interferometer Gravitational – Wave Observatory is a large-scale physics experiment and observatory. The masses saw the demonstrations explaining gravitational waves and working of LIGO. There also was a great opportunity to interact with scientists.

## NIGHT DRONES

We were the first college in Mumbai to conduct a drone racing event, the night sky was a fitting backdrop for the drone racing as they raced for a prize money of Rs. 2,00,000.



## ROBOWARS

A battle between two wireless heavy robots carrying active weapons controlled externally in a closed arena for a prize money Rs. 2,40,000. This extravaganza of technology supercharged the element of awe and the fury of automation was set to blaze the tussle in the most anticipated flare of glory. Teams from all over the country, shed tears, sweat, for months preparing their bots for this event. Hundreds of excited students, children, adults alike watched in awe as the battle begun.

A plethora of other events viz. Robo Sumo, Robo Soccer, Robo Maze, Robo Strike, VJTI Robotics challenge (VRC), Makers' square and many more took place on 27<sup>th</sup>, 28<sup>th</sup> and 29<sup>th</sup> of December 2019.



## GUEST LECTURES

Technovanza 2019, experienced a glorious line-up of renowned dignitaries, ranging from diverse fields who graced the VJTI grounds with their presence while progressively illuminating young minds to new areas of interest. Technovanza's Guest Lecture Series tried to bring some of the brilliant young minds together at our symposium and connect them to many marvelous achievers so that they can inspire the student community. Here are a few Guests who were hosted during Technovanza GLS 2019.

**26th August 2019**

**GLS lecture by Apurva Jakhadi**

Technovanza's Guest Lecture Series commenced successfully with great grandeur, with their first guest being the multifaceted, young and dynamic Ms. Apurva Jakhadi. She is a NASA Honeywell Space Educator, member of the UN Space Generation Advisory Council in Austria, National Space Society in Washington and many other reputed national and international organizations.

**16th October 2019**

**Rashmi Robot at Technovanza**

As the evening of 16th October dawned, the campus of VJTI was filled with a highly motivated crowd that had come to witness the world's first Hindi speaking humanoid robot, and India's first lip-syncing robot – Rashmi, along with its creator Mr. Ranjeet Shrivastava, a 38-year-old Ranchi-based software engineer. Rashmi uses Artificial Intelligence, Linguistic Interpretation, Visual Data and Face Recognition systems to talk like a human being. She speaks various languages such as Hindi, English, Marathi and Bhojpuri. Rashmi greeted the highly energetic crowd with a “Namaste”, wooing the highly energetic audience. As the humanoid conversed more with crowd, impressing everyone, Mr. Srivastava was questioned about the technology behind the making of the robot. The crowd was pleased to know that the Robot was made using Visual basic, C sharp and the machine code being C. The Robot was pragmatic about Global warming and advised the young generation to contribute their bit for the betterment of the environment.



**27th December 2019**

**Guest lecture by Air Chief Marshall B.S. Dhanoa**

Technovanza hosted one of India's most decorated air officers who served as the 25th Chief of Air staff, having more than 3140 hours of flying experience. Former Air chief Marshall B S Dhanoa was commissioned into the Indian air force in June 1978 and led



the 17 squadron, The Golden Arrows during the Kargil war and was awarded Yudh Seva medal for his brave and innovative attack plan and his gallantry action. The audience was on the edge of their seats during the entire span of the lecture, where the former air chief marshal recounted the strategies and stories of his past. The audience seated gained insight into the working and thorough “role of Indian Air force in National Security”.



**27th December 2019**

**Guest lecture by Rujuta Divekar**

Ms. Rujuta Divekar, is a well-established name in the domain of nutrition and fitness science. Ms. Divekar is a popular youtuber and an imminent author with a reach of 1 million readers. She uncomplicated the tough acting of eating right for the hundreds present in the VJTI auditorium, with her mantra “Eat local, think global”. The audience was mesmerized as she gave steps to a fitter body, as opposed to a thinner body. She talked about how one could “Future proofs your health”. She emphasized on the difference between weight loss and fitness, saying weight loss is temporary and fitness is permanent.



**28th December 2019**

**Guest lecture by Affan Kutty**

Grandmaster Affan Kutty, has achieved great heights at a tender age of 13. This speedcuber is the only child in the world to write letters on cubes, that too blindfolded. He is the only Indian to write alphabets on 7\*7 rubix cube. This 13-year-old TedX Speaker has broken the Limca, Asia records and is surely going to break the Guinness book of records. This child prodigy gave his 25th Talk on Saturday in Technovanza, the prestigious technical fest of VJTI. With wise words emanating from a young body, he charmed the crowd, solving cubes which spelled " VJTI TECHNOVANZA ".

**28th December 2019**

**Guest lecture by R. GopalKrishnan**

Technovanza hosted Mr. R Gopalkrishnan at VJTI, who comes with 40 rich years of experience in professional management. He is an executive director of Tata Sons Ltd. He also serves as a director on the board of Tata Power, Tata Technologies, AkzoNobel India, Castrol India and ABP Pvt. Ltd. The audience at VJTI witnessed an intriguing talk on *"Why made in India managers do well in global roles?"*



**29th December 2019**

**Guest lecture by Kartikeya Vikram Sarabhai**

A leading global educator in the realm of environmental sciences, Mr. Kartikeya Sarabhai is a leading name in the dedication towards community building. Recipient of the Padma Shri in 2012, took his passion of social and environmental development over heading a family pharmaceutical business! He is currently serving as the founder and director of CEE. The stage at VJTI was graced



by the presence of this pioneer, with him shining light on the topic "Technologies for a Sustainable planet".

**29th December 2019**

**Guest Lecture by Tanishq Abraham**

Tanishq Abraham graced the stage at VJTI on 29th December, talking to a room full of eager and mesmerized audience. He is the youngest engineering degree holder at 14 years old from University of California, Davis. He first authored a review paper on synthetic biology at 15 years, and is now doing his research and teaching undergraduates and continuing his Ph.D. This young prodigy sure wowed the audience and held them spell bounded.



**Dr. Krishnamurthy Subramanian**

VJTI's stage was graced by the presence of Dr. Krishnamurthy Subramanian. He is currently serving as the chief economic advisor to the Govt. of India, and also a tenured professor at the Indian school of business. An electrical engineer from IIT Kanpur, top notch business graduate from IIM Calcutta, and a dual MBA plus Ph.D. from University of Chicago's Booth School of Business, Mr. Krishnamurthy is the epitome of economic understanding. This pioneer gave the audience at VJTI an insight as to what it means to be on the driving end of shaping an economy.





## Entrepreneurship cell activities

### E-CONCLAVE

E-conclave was the event hosted by Entrepreneurship Cell VJTI in the odd semester of the academic year 2019-20. The event began with the introduction of initiatives led by E-Cell VJTI like Start-up Networking Conference, E-Week and Start-up VJTI Campaign. Later giving the brief introduction of nine events individually in the upcoming year. There were two speeches by current entrepreneurs from VJTI Mr. Noorain Panjwani and Mr Heet Shah. Various competitions were conducted during the event which included logo housie, 12 winners were given the prizes according to the points. A quiz was also conducted during this event where 5 winners were given prizes according to the score of the question they had answered.



### GUEST LECTURE BY NIRANJAN HIRANANDANI

For the launch of Entrepreneurship Week, the Entrepreneurship Cell of VJTI organized a guest lecture by Dr. Niranjan Hiranandani, Co-founder and Managing Director of Hiranandani Group, engaged in real estate business. The Guest Lecture was held in the Quadrangle of VJTI. An audience of more than 800 people was present for the special event. Dr. Hiranandani, in his speech, accentuated the “significance of perfection and excellence in every task you perform”. Stating that it takes 10,000 hours of practice to acquire perfection, he put forth simple everyday examples before the

audience for the same. Dr. Hiranandani also urged the students to perceptibly improve themselves every day. He asked the students to incessantly work to make oneself better than what they were the day before. The students present in the audience were eminently inspired by Dr. Hiranandani's talk.



## INSANE PITCHERS

Insane Pitchers is an exciting event where an idea is proposed to the participants which seem to have very less business sense. The event took place on 18<sup>th</sup> October 2019. The participants were given the task of pitching the idea to a panel of mock venture capitalists and convince them to invest in the crazy idea. The creativity skills of participants were put to test in this competition. The participants had to pitch uncanny or unusual items like rock, air, one side of a Velcro and other such items. The judges then rated the participants on several bases and the judges scores were then averaged with scores obtained by audience poll.



## HIRE – A BUSINESS SIMULATION COMPETITION

HIRE is a business simulation competition. It lets participants drive their own small-scale business for a whole day. It has 4 sectors that are food, merchandise, fun and games and workshops. Where participants tackle their competitors to maximize their profits. There are two CEOs and four employees in each sector. These four teams competed against each other on the final day of Hire. On the final Hire day all the teams had put up their services or products for the customers. They conducted their businesses from 9 am to 5 pm. Winners were judged by business professionals based on the performance, marketing strategy and profits. At the end of the day, the profits made are of participants only. 'Hire' is a win-win situation for everyone who takes part in it. The final presentation round was judged by Mr. Prasad Kulkarni, Vice President of Global HR Operation, Accelya group and Mr. Siddhant Kashyap, Vice President-Human Resources, at Nodd.



## STARTUP NETWORKING CONFERENCE

Start-up Networking Conference, the Entrepreneurship Fest of VJTI was conducted by Entrepreneurship Cell, VJTI on 15th and 16th of February 2020. SNC was held in the College premises. Its mission is to nurture the student start-ups on a personal scale by evaluating their problems, connecting them to mentors and also conduct seminars and workshops to prepare the founders for personal and business goals thus creating an ecosystem where failure is a steppingstone to success.

## GUEST LECTURE BY KIRAN KHALLAP

A modern-day monk, Kiran Khallap (*MD of Chlorophyll, one of India's finest brand and communications consultancies*) gave a presentation on how creativity is a cornerstone for any successful branding firm. He elegantly described how creativity is not gifted but can be cultivated through special practices. He encouraged students to meditate to find a sense of calmness in this modern stressful world and how important ethics are for any entrepreneur

## STARTUP & PRODUCT EXPO

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

1. Start-ups - Start-ups from various sectors were allotted space wherein they showcased their work, technologies, and products.
2. Internships Arena – Interested students could avail internships from start-ups, in a few easy steps
3. Product expo – Various technical teams of colleges had their models showcased in the quadrangle. Racing enthusiasts were thrilled to see such an expo.





## EXECUTIVE SUITE

It was a mock placement or a mock hiring event where all the 87 participants had to first go through an aptitude test similar to a placement round. The filtered 40 participants had to go through the next round that is the Group Discussion and finally the selected 15 candidates went through Situation Analysis out of which 12 went to the personal Interview.

## UNICUS

Unicus is a national level business plan competition, organized by Entrepreneurship cell VJTI. The competition took place in three stages. In the first stage- entries were taken from all over the country. The participating teams had to fill in a questionnaire and send a valid and precise description of their ideas and usefulness of the startup to society. All the participating startups were required to be necessarily registered and under the age of 0-1 years. After the first round, all entries were judged by a panel of startup mentors, investors and judges, who shortlisted the number of startups entering rounds two. The results of the first round were released and the shortlisted participants were each provided with a mentor for a period of 20 days, to enhance the growth of their startup. At the end of the sessional period, the shortlisted startups were required to send in their final responses, which were to be judged for their qualification in the final round. Both round one and two were online. Apart from the mentors The difference between the journeys of an entrepreneur and an average corporate job seeker. They also got to see

the challenges faced by a Doctor who pursued Entrepreneurship and were glad to be a part of his inspiring journey.



## DEBATE AND LITERARY ACTIVITIES

DLA committee has been providing the platform for students to develop not only skills but also showcase their flair for non-technical talents.

The VJMUN Workshop is designed to help first-timers get a handle on the complex workings of a Mock UN Committee, understand the minutes of lobbying and diplomacy, and at the same time aspire to get the youth more involved in policies and politics. The VJMUN Workshop conducted in September 2019, saw over 100 participants and some scintillating debates on the issue of “Oppression of minorities with special focus on Uighurs and Rohingyas”.



Pumped from their experience at the Workshop, over 100 delegates, both from VJTI and from other colleges across India, attended the 2-day VJMUN held during the third weekend of January 2020. VJMUN included the simulation of the Lok Sabha, the



Historic Security Council, and the United Nations Human Rights Council. The stellar debates, ranging from topics such as the Bangladesh Liberation War of 1971 to Rights of Children, left the participants buzzing with energy and increased confidence in their abilities of public speaking, effective communication, debating, lobbying, and multilateral diplomacy.



With the motive of increasing the students' interest in fields of history, geography, science, sports, etc. and to encourage general curiosity among them, the FY Quiz was conducted



exclusively for the First-Year students in the first week of November 2019 and with over 70 applicants, it was a huge success. DLA also provided a platform for budding singers, poets, writers, musicians and stand-up comedians to showcase their talent in the form of the VJTI Open Mic, held in 2 sessions, of which one was a special session where our final year students performed for “*One Last Time*”. Both were streamed online on the YouTube channel in collaboration with Pratibimb, in the month of July 2020. The event saw a huge crowd and was lauded for the talent of the participants. DLA has also been organizing the Book Club since the past 3 years which provides a medium for like-minded bibliophiles to meet and discuss various books and topics related to them and this enables the attendees to better understand the book by listening to various viewpoints by various people. The sessions are usually conducted every 2 weeks and the audience has steadily increased over the months. Post the lockdown in the country,

the sessions have been held virtually and have been received very well by an ever-increasing student group.

In the month of May 2020, DLA organized an online writing competition on the topic of “Life post Quarantine” and received more than 50 entries of which the top 5 were posted on our Instagram handle.

In the month of June 2020, DLA did a short 7-day series on our social media handles to highlight some of the most impactful movies across cinemas, eras and genres.

The initiative of Internship Blogs was launched with the aim of helping the second- and first year students gain insight into the unique internships undertaken by their seniors and to inspire them to achieve more.

In addition to conducting such events, DLA has also sent delegations and teams to various competitions, where the students have won various accolades, including: Best Delegate, High commendation at ICTMUN; Best Debate Entry and Best Elocution Entry at ‘Genderlogue’, Verbal Mentions at SIEMUN, SPITMUN, and students have also been part of the executive boards of numerous MUNs. The various events organized by the DLA over the course of the year have helped the students improve their skillset, especially in the fields of communication, negotiation, civics, public speaking, and active listening among others.





## SWACHH VJTI

The committee conducted various cleanliness drives independently as well as in collaboration with other social group committees.

### Glimpses of the Cleanliness Drive Conducted on 2<sup>nd</sup> Oct 2019



## VJTI SOCIAL GROUP OUTREACH

### FOOD DISTRIBUTION DRIVE

This a food distribution drive was conducted by the sports committee in collaboration with the *RobinHood Army India*



## BEACH CLEANING DRIVE

The Technical Committee organized a beach cleaning drive at Dadar Beach with an initiative to protect the beauty of the oceans and the marine eco-system. The drive saw active participation of people from all age groups and sets out an example that age doesn't matter in order to bring a change for the betterment. Around 100 volunteers of Technovanza along with local citizens came together to set a firm example of team spirit and environment concern.



## FLOOD RELIEF OPERATIONS BY RANGAWARDHAN

Rangawardhan VJTI carried out flood relief during Kolhapur - Sangli floods to help the needy people. They collected essentials items of life and sent them to Kolhapur Sangli from 10<sup>th</sup> August to 14<sup>th</sup> August 2019. The second social drive was carried out at an Old Age Home. These events helped students to understand the Social Values.





## 150 YEARS OF CELEBRATING THE MAHATMA

This year, on the account of the 150<sup>th</sup> Birth Anniversary of Mahatma Gandhiji, the entire Social Group conducted various events to reflect and recall the teachings of the Mahatma.





## BEACH CLEANING DRIVE

On the occasion of 150th Birth Anniversary of Mahatma Gandhiji, The Cultural Group of VJTI in collaboration with the Alumni Association carried out a beach cleaning drive at the Bandra Beach. VJTI students gathered at the Bandra Beach early morning and carried out the drive until afternoon.



# EXTERNAL RELATIONS

VJTI has been on forefront as far as interaction with industry and sister Institutes are concerned.

## MOU SIGNED AND IMPLEMENTED (2015-2020)

Sr.	Organization	Objective
1.	Centre for Technology, Alternatives For Rural Areas (CTARA), IIT, Bombay	UG/PG Students Projects related to Rural areas, 2015-16
2.	Icar-Circot, Mumbai, Lafarge India Ltd. Mumbai	Experimental research for PG Programmes, 2016-17
3.	Struct Bombay Consultants	Industry Institute Interaction, Internships, Expert talks etc.2016-17
4.	Navdeep Construction Company	Industry Institute Interaction, Internships, Expert talks etc. 2016-17
5.	Kalyan Dombivali Municipal Corporation, Kalyan, Dist. Thane, Maharashtra State	Agreement For TPI Agency For conducting Technical Audit of various development works under taken By Kalyan Dombivali Municipal Corporation, Kalyan, Dist. Thane, Maharashtra State, 2017-2018

6.	National Highway Authority of India (NHAI)	<p>i) NHAI shall facilitate the faculty, researchers and students of the Institute to familiarize with the latest trends in the highway/transportation sector with a common objective of sharing the knowledge in their respective domain,</p> <p>ii) The adopted stretch may be used as a field of study for faculty, researchers and students.</p> <p>iii) NHAI shall offer internship to 25 number of undergraduate/postgraduate students of the Institute periodically and also extend stipend. 2019-20</p>
7.	The Motwane Manufacturing Company Private Limited	<p>Joint research investigations</p> <p>Conducting expert lectures and seminars</p> <p>Mutual visits of personnel (faculty, engineers, Scientific officers, others)</p>
8.	Testdata Technologies Private Limited	<p>Joint research investigations</p> <p>Conducting expert lectures and seminars</p> <p>Mutual visits of personnel (faculty, engineers, Scientific officers, others)</p>
9.	Cummins India Ltd, Pune	<p>Faculty deputation of Summer/winter, M Tech project and Internship,</p> <p>Training of personnel from Cummins,</p> <p>Lab development jointly with the Institute and industry</p>
10.	Star Coolers & Condensers	M Tech project and Internship
11.	Larsen and Toubro ltd	<p>MTech. Projects.</p> <p>Training for subject 'Pressure Vessel'.</p>
12.	NPCIL Mumbai	M Tech. Internship
13.	ESMECH Mumbai	M. Tech. Project
14.	ICT Mumbai	Academic and Research interactions

15.	BLUE STAR Mumbai	Training
16.	IIT Bombay	Academic and Research interactions
17.	BARC Mumbai	Academic and Research interactions
18.	Mahindra & Mahindra	Joint development of the laboratory 'Mahindra Cobranded Lab
19.	Ms/. Emerson Climate Technologies (India) Private Ltd. , Pune	Collaboration in the domain of Refrigeration & Air Conditioning.
20.	SIMENS INDIA Pvt. Ltd.	Collaboration in the development of Manufacturing & Measurement Lab
21.	MIDAS Research and Development Center India Pvt Ltd.	MIDAS software support to MTech and PhD students during their research activities.
22.	Department of Civil Engineering and Engineering Mechanics, College of Engineering, The University of Arizona, USA.	Exchange of faculty members. Collaborative research project and execution. Exchange of academic information and materials. Cooperative use of experimental and computational facilities.
23.	Wool Research Association (WRA)	Collaborative Research Work & Knowledge Partner for CoE of Sportech
24.	Bombay Textile Research Association (BTRA)	Collaborative Research Work

25.	Institute of Chemical Technology (ICT)	Collaborative Research Work
26.	National Institute of Fashion Technology (NIFT)	Collaborative Research Work
27.	Central Institute for Research on Cotton Technology (CIRCOT)	Collaborative Research Work
28.	University of Liberec, Czcheslovakia (TUL-Cz)	Collaborative Research Work
29.	Wonder weaves Systems Pvt. Ltd.	Provide the comprehensive knowledge to the students as well as the faculty members about the computer aided design in the field of textiles also to arrange the tailor-made training programs to the students
30.	The Woolmark Company, Australia	Training and certification in wool fibre grading-spinning-processing

## **VJTI ALUMNI ASSOCIATION**

### **1. LIFE MEMBERSHIP:**

As on today, the Total Life Members strength is 2,572 plus. During the year the increase in membership strength of about 65 Nos. Since 2009, students passing out are enrolled as Associate Student Members. As a result, a total of about 11,500 Students, have been enrolled.

### **2. MAJOR EVENTS SPONSORED BY ALUMNI ASSOCIATION:**

- **The Annual Alumni Re-Union was held last year on 11th January 2020**
  - a) Mr. Vasant Manohar was felicitated with the “Lifetime AchievementAward”.



b) “Distinguished Alumni” was conferred on-

Dr. Amit Paithankar (MD, South Asia, Emerson)

Mr. Govind Rammurthy (CEO & Managing Director of MicroWorld Technologies Inc.)

Ms. Mohini Kelkar (MD at Grind Master Machines Pvt. Ltd.)

c) The Annual Souvenir VaiJayanTI 2019 was released by the auspicious hands of Mrs. Sandra Shroff, Chairperson, BoG of VJTI.

- **Felicitation of Retired Teaching Staff of VJTI**

A formal function was held on October 18, 2019 and the Teaching Staff, who retired during the Calendar Year- 2019 were felicitated

- **VJTI Alumni Sports Day**

On January 05, 2020 Alumni Sports Day; which was held in Association with Enthusia, the Sports Committee of VJTI Students, has been organizing Alumni from across the Years, including a few Faculty Members, along with the Current Students, participated in the games like Cricket, Table Tennis, Badminton, Carom, Chess etc. The winners of the various sports events were felicitated with Medals & Trophies.

- **Renovating Various Infrastructural Facilities at VJTI Campus with the generous funds donated by our Alumni.**

Projects Completed during the year 2019-20:

a) Renovation of Heat Transfer Laboratory in Mechanical Engineering Department:

This project has been completed with the lead support of Mechanical Batch of 1993. Total fund collection from this Batch is to the tune of about Rs. 31 lakhs; of which about Rs.15 lakhs has been earmarked for the renovation of Heat Transfer Lab and balance amount of about Rs. 16 lakhs was utilized to meet part of the shortfall of Auditorium Project.

b) Renovation of Krantijyoti Savitribai Phule Auditorium:

Inaugurated on September 11, 2019 by the hands of The Chairperson, BOG, VJTI, Smt. Sandra Shroff & Dr. Dhiren Patel, Director, VJTI, this is the single largest project implemented by Alumni Association with support from VJTI got completed in a record time of 134 days. This renovated Auditorium has state-of-art audio, video, lighting, acoustics, seating and air conditioning facilities. The Total Project Cost is about Rs. 1.43 Crores.

c) Renovation of Classrooms in Electrical Department:

During this year, One Classroom in Electrical Department was renovated. The Total Cost of these Projects is about Rs. 11 Lakhs. contribution received from 1993 Electrical Batch.

### **3. SNC – Startup Networking Conference**

Alumni Association teamed up with E-Cell and organized “SNC – Startup Networking Conference”, on February 15 and 16, 2020. The main aim of SNC is to foster and create an entrepreneurship ecosystem at VJTI. The conference included different Lectures, Events and Sharing of Startup Experiences.

### **4. Scholarship for Mechanical Degree Students by Mr. Muralidharan Natarajan:**

Alumni Association awarded Scholarship to four 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. The total amount of scholarship was about Rs. 1,43,000/-. This Annual Scholarship has been initiated an Alumnus of B. E. Mechanical -1977 Batch, in Fond Memory of his Parents.

### **5. Scholarship for Mechanical Degree Students: (VJTI Exceptional Performer Award)**

Another Scholarship is awarded to Exceptional Performer Students from Mechanical Department. Under this category also four degree Students, one each from First Year, Second Year, Third Year and Final Year were given this award. Each student was awarded Cash Scholarship equivalent to the Tuition Fees. The total amount of

scholarship was about Rs. 1.00 Lakh. This Annual Scholarship has been initiated by Mr. Shreekhar Ramesh, an Alumnus of B. E. Mechanical -2016 Batch.

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

Providing Financial Assistance to Deserving Needy Students has now become a regular activity. Alumni Association awarded a Total Sum of Rs. 10,35,000/- by way of Financial Assistance to 49 Students from various streams of Degree and Diploma to meet their Tuition Fees, Hostel Fees & Mess Expenses.

#### **7. 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 2019-20, the Association received a total amount of about Rs.12.64 Lakhs by way of generous contributions from Overseas Alumni.

# Organization

## BOARD OF GOVERNORS

Sr. No.	Name of Member	Affiliation
1	Smt. Sandra R Shroff	The Chairman
2	Dr. Deepak B Pathak	Member, Nominee of Government of Maharashtra
3	Dr. Mangesh V. Joshi	Member, Nominee of Government of Maharashtra
4	Prof. R. P. Singh	Member, Nominee of UGC
5	Shri. Dinanath Kholkar	Member, Industrialist
6	Shri. Saurabh Vijay	Member, Representative of Government of Maharashtra
7	Dr. Prachi Gharpure	Member, Nominee of University of Mumbai
8	Dr. Dhiren R. Patel	Member Secretary
9	Dr. M. S. Panse	Member, Institute's Teacher Representative
10	Dr. M. R. Nagare	Member, Institute's Teacher Representative

## BUILDING CONSTRUCTION COMMITTEE

Sr. No.	Name of Member	Affiliation
1	Dr. Dhiren R. Patel	The Chairman

2	Dr. Mangesh V. Joshi	BoG Nominee
3	Mr. Sandeep Prabhu	Member
4	Mr. Rajiv Mishra	Member
5	City Engineer, Municipal Corporation of Greater Mumbai	Member
6	Superintendent Engineer, PWD	Member
7	Dr. M. Chakrabarti, Dean-Infrastructure Maintenance, VJTI	Member Secretary
8	Dr. K. K. Sangle, Professor, Structural Engg Department	Invitee
9	Dr. A. N. Bambole, Professor, Structural Engg. Department,	Invitee

### **FINANCE COMMITTEE**

<b>Sr. No.</b>	<b>Name of Member</b>	<b>Affiliation</b>
1	Dr. Dhiren R. Patel	The Chairman
2	Mr. Sadanand L. Apte	Member
3	Mr. Sanjay Dongre	Member
4	Dr. Mangesh V. Joshi	Nominee of BoG
5	Dr. Sachin S Naik	Member Secretary

### **ACADEMIC COUNCIL**

<b>Sr. No.</b>	<b>Name of Member</b>	<b>Affiliation</b>
1	Director	Chairperson



2	All Heads of the Department	Members
3	<p>Four Teachers of College nominated by Director</p> <ul style="list-style-type: none"> <li>• M. S. Panase, Professor, Electrical Engineering Department</li> <li>• Dr. V. M. Topkar, Professor, Civil Engineering Department</li> <li>• Dr. S. Y. Mhaske, Associate Professor, Civil Engineering Department</li> <li>• Dr. W. S. Rathod, Associate, Mechanical Engineering Department</li> </ul>	Members
4	<p>Three experts in the subject from outside the college nominated by the Board of Governors.</p> <ul style="list-style-type: none"> <li>• Dr. B. Ravi, Institute Chair Professor, Department of Mechanical Engineering, IIT Bombay</li> <li>• Dr. G. Sivakumar, Department of Computer Science &amp; Engineering, IIT Bombay</li> <li>• Dr Dipankar Choudhuri, Professor, Department of Civil Engineering, IIT Bombay</li> </ul>	Members
5	<p>Nominee of University Dr. Shubha Pandit, Principal, S. K. Somaiya College of Engineering</p>	Member
6	Dean (Academic Programmes)	Member Secretary

# Faculty

## CIVIL AND ENVIRONMENTAL ENGINEERING DEPARTMENT

Faculty Name	Designation	Last Degree
<b>Degree</b>		
Dr. Bhawe P. P	HOD, Associate Professor	Ph.D.
Prof. Chaudhari P. S.	Assistant Professor	M.Tech
Dr. Mhaske S. Y	Associate Professor	Ph.D.
Prof. Sayyad S. U.	Assistant Professor	M.E
Dr. Varekar V.B.	Assistant Professor	Ph.D.
Dr. Wayal A. S	Associate Professor	Ph.D.
<b>Diploma</b>		
Prof. Bhangale V. S.	Lecturer	M.E
Prof. Bhole C. R	Lecturer	M.E
Prof. Gorkar A. P.	Diploma Head, Lecturer	M.E
Prof. Sagole S. A.	Lecturer	M.Tech

## COMPUTER ENGINEERING & INFORMATION TECHNOLOGY DEPARTMENT

Faculty Name	Designation	Last Degree
Dr. S. G. Bhirud	Professor (CAS)	Ph.D.
Prof. P. M. Chawan	Associate professor	M.E.

Dr. M. M. Chandane	Associate professor	Ph.D.
Prof. V. D. Dhore	Assistant Professor	Pursuing Ph.D.
Prof. K. K. Joshi	Assistant Professor	Pursuing Ph..D
Prof. M. U. Kulkarni	Assistant Professor	Pursuing Ph.D.
Prof. S. A. Khedkar	Assistant Professor	Pursuing Ph.D.
Dr. B. B. Meshram	Professor	Ph.D.
Dr. V. B. Nikam	Associate professor	Ph.D.
Prof. Sowmaiya Raksha Naik	Assistant Professor	Pursuing Ph.D.
Prof. Varshapriya J. N.	Assistant Professor	Pursuing Ph.D.
Dr. D. R. Patel	Director	Ph.D.
Prof. M. R. Shirole	Associate professor	Pursuing Ph.D.
Prof. S. C. Shrawne	Assistant Professor	Pursuing Ph.D.
Dr. V. K. Sambhe	Assistant Professor	Ph.D.
Prof. S. T. Shingade	Assistant Professor	Pursuing Ph.D.
Prof. S. S. Suratkar	Assistant Professor	Pursuing Ph.D.
Dr. S. S. Udmale	Assistant Professor	Ph.D.
Visiting Faculty Dr. G. P. Bhole	Research Associate and Faculty	Ph.D.

### ELECTRICAL ENGINEERING DEPARTMENT

Name of Faculty	Designation	Last Degree
<b>Degree</b>		

Dr. Daruwala Rohin	Professor	Ph.D.
Dr. Panse M.S.	Professor	Ph.D.
Prof. Gupta Pragati	Asst. Professor	M.Tech
Prof. Amutha Jeyakumar	Associate Professor	M.E.
Dr. R. N. Awale	Professor	Ph.D.
Dr. Faruk A. S. Kazi	Professor	Ph.D.
Prof. R. A. Patil	Associate Professor	M. Tech
Dr. D. P. Rathod	Asst Prof	Ph.D.
Dr. Wagh Sushama	Asst. Professor	Ph.D.
Prof. S. J. Bhosale	Associate Professor	
Dr. A. N. Cheeran	Associate Professor	Ph.D.
Prof. J. O. Chandle	Associate Professor	M.E.
Prof. H. B. Chaudhary	Associate Professor	M.E.
Prof. Krishna Kanakgiri	Associate Professor	M. Tech
<b>Diploma</b>		
Prof. S.K. Bhil	Lecturer	M.E.
Prof. A.A. Dapkawala	Lecturer	M.Tech
Prof. J.A. Gondane	Lecturer	M.Tech
Prof. P.K. Tejani	Lecturer	B.E.
Prof. R.R. Ingale	Lecturer	M.E.
Prof. S.T. Sawant	Lecturer	M.E.
Prof. A.A. Sharma	Lecturer	M.E.

Prof. Y.E. Wankhede	Lecturer	M.Tech
Prof. S.R. Yadwad	Lecturer	B.E.

### HUMANITIES AND MANAGEMENT DEPARTMENT

Faculty Name	Designation	Last Degree
Prof. K.R. Borase	Assistant Professor	M.A. NET
Prof. Usha Nair	Associate Professor	M.A, M. Phil
Dr. Meena S. Panse	Professor & Head	Ph.D

### MATHEMATICS DEPARTMENT

Faculty Name	Designation	Last Degree
Prof. Nishigandha Kurhade	Assistant Professor	M. Sc
Prof. S. S. Patange	Lecturer – Selection Grade	M. Sc., M. Phil
Prof. N. R. Deshmukh	Lecturer – Selection Grade	MSc., M. Phil

### MCA DEPARTMENT

Faculty Name	Designation	Last Degree
Prof. S.I. Ajankar	Assistant Professor	M.Tech.
Prof. S.S. Chopade	Assistant Professor	M.Tech.
Prof. N.B. Khandare	Assistant Professor	M.Tech.



Prof. A.G. Pai	Assistant Professor	M.C.A.
Dr. A.A. Pandit	Associate Professor & Head	Ph.D.

### MECHANICAL ENGINEERING DEPARTMENT

Faculty Name	Designation	Last Degree
<b>Degree</b>		
Prof. S.S. Barve	Assistant Professor	M.E. Ph.D. (Pursuing)
Dr. A.V. Deshpande	Assistant Professor	Ph.D.
Prof. S.P. Gajre	Assistant Professor	M.Tech.
Dr. N.P. Gulhane	Associate Professor	Ph.D.
Prof. S.M. Gunadal	Associate Professor	M.E. Ph.D. (Pursuing)
Prof. S.G. Jadhav	Assistant Professor	M.E.
Dr. P.M. Karande	Associate Professor	Ph.D.
Dr. H.P. Khairnar	Assistant Professor	PhD
Prof. S.H. Kulkarni	Associate Professor	M.Tech
Dr. S.A. Mastud	Associate Professor	Ph.D.
Dr. S.S. Naik	Associate Professor	Ph.D.
Dr. V.M. Phalle	Associate Professor	Ph.D.
Dr. A.S. Rao	Assistant Professor	Ph.D.
Dr. W.S. Rathod	Assistant Professor	Ph.D.

Dr. V.B. Suryawanshi	Assistant Professor	Ph.D.
Prof. R.M. Tayade	Associate Professor	M.E. Ph.D. (Pursuing)
Prof. G.U. Tembhare	Assistant Professor	M.E.
Dr. M.V. Tendolkar	Assistant Professor	M.E.
Prof. P.A. Wankhede	Assistant Professor	M.E. Ph.D. (Pursuing)
Dr. Narendar Panwar	Assistant Professor	Ph.D.
Dr. Prashant Todmal	Assistant Professor	Ph.D.
<b>Diploma</b>		
Dr. V.M. Barethiye	Lecturer	Ph.D.
Dr. R.O. Bhagwat	Lecturer	Ph.D.
Prof. Peter D'souza	Lecturer	M.E. Ph.D. (Pursing)
Prof. A.R. Dhiware	Lecturer	B.E. M.Tech (Pursuing)
Prof. S.V. Diwan	Lecturer	M.E.
Prof. R.S. Kadge	Lecturer	M.E.
Prof. K.P. Kudalkar	Lecturer	M.E.
Dr. V. N. Palaskar	Lecturer	Ph.D.
Prof. S. D. Rote	Lecturer	M.E.

### PHYSICS DEPARTMENT

Faculty Name	Designation	Last Degree
Prof. T. B. More	Assistant Professor	M.Sc.
Dr. D. S. Wavhal	Professor	Ph.D.
Dr. M. S. Panse	Professor & Head (Physics, Mathematics and Humanities)	Ph.D.

### PRODUCTION ENGINEERING DEPARTMENT

Faculty Name	Designation	Last Degree
Dr. D. N. Raut	Professor	Ph.D.
Dr. M. R. Nagare	Associate Professor	Ph.D.
Dr. Dattaji K Shinde	Associate Professor	Ph.D.
Prof. P. R. Attar	Assistant Professor	M.Tech
Prof. D. V. Pendam	Assistant Professor	PGDIE

### STRUCTURAL ENGINEERING DEPARTMENT

Faculty Name	Designation	Last Degree
<b>Degree</b>		
Dr. A.N. Bambole	Professor and Library In-charge	Ph.D.
Dr. M.A. Chakrabarti	Professor and Dean IP Maintenance	Ph.D.
Dr. V.B. Deshmukh	Associate Professor	Ph.D.

Dr. S.S. Pendhari	Associate Professor and Head	Ph.D.
Dr. K.K. Sangle	Professor and Dean Academics	Ph.D.
Prof. J.G. Solanki	Assistant Professor	M.Tech
<b>Diploma</b>		
Dr. P.W. Kubde	In-charge Head Diploma Section.	Ph.D.

### TECHNICAL AND APPLIED CHEMISTRY DEPARTMENT

Faculty Name	Designation	Last Degree
Prof. A. S. Ashtikar	Lecturer	M.Sc.
Dr. S. S. Lokegaonkar	Lecturer	Ph.D.
Dr. Sujatha P	Asst. Professor and Head	Ph.D.
Prof. M. S. Thorat	Lecturer	M.Sc.
Dr. N. N. Wankhede	Lecturer	Ph.D.

### TEXTILE MANUFACTURING DEPARTMENT

Faculty Name	Designation	Last Degree
<b>Degree</b>		
Prof. A.L. Bhongade	Associate Professor	M.Tech
Dr. S.P. Borkar	Professor	Ph.D.
Prof. A.K. Gajbhiye	Assistant Professor	M.Tech

Dr. Suranjana Gangopadhyay	Assistant Professor	Ph.D.
Dr. V.D. Gotmare	Associate Professor	Ph.D.
Dr. Neha Mehra	Assistant Professor	Ph.D.
Prof. S.A. Patil	Assistant Professor	M.Tech
<b>Diploma</b>		
Prof. A.N. Baliga	Lecturer	M.Tech
Prof. P.N. Deshmukh	Lecturer	B.Tech
Dr. D.P. Kakad	Lecturer	Ph.D.
Dr. D.V. Raisinghani	Lecturer	Ph.D.
Prof. S.N. Tetambe	Lecturer	M.Tech

#### FACULTY ON TENURE BASIS

Sr.No.	Name of Candidate	Department
1.	Dr. Chavan R.M.	Civil & Env. Engineering
2.	Dr. Topkar V.M. (visiting professor)	Civil & Env. Engineering
3.	Dr. Radha Chaware	Computer Engineering
4.	Ms. Rukhsar Khureshi	Computer Engineering
5.	Mr. Ranjit Fule	Computer Engineering
6.	Mr. Vaibhav Ingale	Computer Engineering
7.	Mr. Mohan Patil	Computer Engineering
8.	Ms. Akansha Magare	Computer Engineering



9.	Ms. Prerna Mohod	Computer Engineering
10.	Mr. Pavan Gedam	Computer Engineering
11.	Mrs. Suchita Dange	Computer Engineering
12.	Ms. Manisha Chahal	IT
13.	Mrs. Noshin Sabuwala	IT
14.	Mrs. Wani Rahangdale	IT
15.	Mr. Nilesh Dangare	IT
16.	Mrs. Shamika Mule	IT
17.	Ms. Mayuri More	IT
18.	Dr. N. M. Singh	Electrical Engineering
19.	Dr. Sowmya Gupta	Electrical Engineering
20.	Dr. Ragini Meshram	Electrical Engineering
21.	Dr. Rinkee Chopra	Electrical Engineering
22.	Dr. Mohd. Jawaid Alam	Electrical Engineering
23.	Dr. Prashant Bhopale	Electrical Engineering
24.	Dr. Haroonhaider Sidhwa	Electrical Engineering
25.	Dr. Amit Gupta	Electrical Engineering
26.	Dr. Chinmay Rajhans	Electrical Engineering
27.	Dr. Shweta Ghodeswar	Electrical Engineering
28.	Dr. Rithesh Kumar Jaiswal	Electrical Engineering
29.	Dr. Tanushree Sharma	Electrical Engineering
30.	Dr. Vivek Kachatiya	Electrical Engineering

31.	Dr. Rizwan Ansari	Electrical Engineering
32.	Dr. Gajanan T. Hivale	H&M
33.	Dr. Vineeth R	H&M
34.	Prof. Vandana Mishra	H&M
35.	Dr. Sachchida Nand Mishra	Mathematics
36.	Dr. Divyesh Patel	Mathematics
37.	Dr. Trushit Patel	Mathematics
38.	Dr. Pooja Singh	Mathematics
39.	Dr. Umesh Balande	MCA
40.	Dr. Niti Desai	MCA
41.	Dr. Surekha Kohle	MCA
42.	Dr. Padmashri Patil	Physics
43.	Dr. Mugdha Jagdale	Physics
44.	Dr Gunjan Yadav	Production Engineering
45.	Dr Mahesh Shinde	Production Engineering
46.	Dr. A. Omar	Production Engineering
47.	Prof. Omprakash Gopalani	Production Engineering
48.	Prof Moin Shaikh	Production Engineering
49.	Prof. Anita Burkande	Production Engineering
50.	Prof. Hemant Badgujar	Production Engineering
51.	Prof. P M Ravanan	Production Engineering
52.	Prof. Sandeep Barange	Production Engineering

53.	Dr. Priya Deshpande (Ad Hoc)	T & A Chemistry
54.	Prof. Sonu J. Hemke (Ad Hoc)	T & A Chemistry
55.	Dr. Sujit Kamble (Ad Hoc)	T & A Chemistry
56.	Prof. Shahishta Khan (Ad Hoc)	T & A Chemistry
57.	Dr. Aniket Kundu (Tenure)	T & A Chemistry
58.	Dr. Vishwabharati Malkar (Tenure)	T & A Chemistry
59.	Dr. Pankaj Pardeshi (Ad Hoc)	T & A Chemistry
60.	Dr. Anita Sharma (Ad Hoc)	T & A Chemistry
61.	Dr. Yogeshwar Suryawanshi (Tenure)	T & A Chemistry
62.	Dr. Abhishek Tiwari (Tenure)	T & A Chemistry
63.	Dr. Amar D. Vibhandik (Tenure)	T & A Chemistry
64.	Dr. Manisha Hira	Textile Manufacturing
65.	Dr. Sushant S. Kole	Textile Manufacturing

## ANNUAL REPORT 2019-20 COMMITTEE

Dr Sachin S Naik	Convenor
Dr. Suranjan Gangopadyaya	Member
Prof. Usha Nair	Member
Mr. Mukesh Sigh	SY M Tech Machine Design Co-opted Student Member
Ms. Sharvari Apte	T Y B Tech Mechanical Co-opted Student Member
Mr. Kaustubh Pawar	T Y B Tech Mechanical Co-opted Student Member

## DEPARTMENTAL REPRESENTATIVES

Prof. V. S. Bhangale	Civil Engineering Department
Prof. Shrinivas Khedkar	Computer Engineering & IT Department
Dr. S. R. Wagh	Electrical Engineering Department
Dr. Gajanan Hiwale	Humanities & Management Department
Dr. Pooja Singh	Mathematics Department
Mr. Kaustubh Kulkarni	MCA Department
Prof. S. P. Gajre	Mechanical Engineering Department
Dr. Mughdha Jagdale	Physics Department
Dr. D. K. Shinde	Production Engineering Department
Dr. Sandip Pendhari	Structural Engineering Department
Dr. Anita Sharma	Technical and Applied Chemistry
Dr. Suranjana Gangopadyaya	Textile Manufacturing Department



Veermata Jijabai Technological Institute,  
Mumbai, India.

