



Late Shri Vishnu Waman Thakur Charitable Trust  
**VIVA INSTITUTE OF TECHNOLOGY**  
Shirgaon, Post: Virar (W), Tal: Vasai, Dist: Palghar – 401 305.  
**DEPARTMENT OF CIVIL ENGINEERING**  
**NEWSLETTER 2019-20**





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**VISION**

- To carve and contribute to the society and the world at large, a group of civil engineers with excellent & high technical competency, who can give the best solutions to the current & future challenges in civil engineering.
- To provide an environment that promotes personal growth, self-confidence, urge for high esteem coupled with high moral and ethical values.

**MISSION**

- To provide students with upgraded technical knowledge through innovative teaching & learning processes.
- To provide interactive sessions with experienced technical experts.
- To associate students with construction industry by way of taking up live projects with industry and expose them to the current scenario.
- To motivate them for research and development activities

**PROGRAMME OUTCOMES**

Engineering Graduates will be able to:

- PO1: Engineering Knowledge: apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- PO2: Problem Analysis: identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3: Design & Development of Solutions: design solutions for complex engineering problems and design system components or processes that meet the specified needs with



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appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

- PO4: Conduct Investigation of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.
- PO5: Modern Tools Usage: create, select and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO6: The Engineer and Society: apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO7: Environment & Sustainability: understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8: Ethics: apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
- PO9: Individual & Team work: function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10: Communication: communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11: Project management & Finance: demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.



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- PO12: Life-long Learning: recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

**PROGRAMME SPECIFIC OUTCOMES**

- Students will be able to carry out planning, design, preparation of all sets of drawing of various small civil engineering projects and manage the construction activities with skill, adhering to the principles learnt during the programme.
- Students will be confident to undertake various projects as entrepreneurs.
- Students will be able to innovate research projects as per the needs of the society.

**ABOUT THE DEPARTMENT**

Department of Civil Engineering had its humble beginning in 2011. Now We have got Ten full-fledged laboratories, a dedicated team of 19 faculty members along with four supporting staff and their untiring efforts to our credit. Our motto is to carve and contribute to the society and the nation, a group of competent civil engineers with sound ethical values.

The department takes initiative in giving the students practical knowledge, exposing them to the industry by conducting site visits, industrial visits, arranging internships etc. Eight of our faculty members are ME degree holders and all others are ME pursuing. They presented papers in various conferences at national and international level and published papers in national and international journals.

They are associated with professional bodies like ISTE, AMIE, IGS etc. Many of our students scored well in exams like GRE, TOFFIL and secured admission for post graduate programme in universities abroad. Many of them secured admission for ME through GATE. Students participate in Tech Fest, sports and cultural festival competitions at inter



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collegiate level and won the awards. Civil engineering student's association(CESA)is in function coordinating various activities of the department.

Our young and dynamic team of faculty members guide the students to make wonderful BE project work, technical working models of Civil Engineering Structures. Our faculty members give expert lectures to other institutes in topics of their interest and specialization. We also invite eminent people from the industry and other institutes in order to promote department - industry - professional relationship conducting special lectures in current developments. One week ISTE sponsored STTP is conducted at department level and college level every year for faculty development for faculties in and outside the department.

**LIST OF LABORATORIES**

Sr No.	Laboratory Name	Location
1	BMC LAB	WORKSHOP Gr. Floor
2	ENG. GEOLOGY LAB	CIVIL-MECH BUILDING 5 <sup>TH</sup> FLOOR
3	SOM LAB	MAIN BUILDING A – 009 Gr. Floor
4	FM LAB	WORKSHOP Gr. Floor
5	SURVEY LAB	MAIN BUILDING Gr. Floor A-002
6	CT LAB	WORKSHOP Gr. Floor
7	TRANSPORTATION LAB	MAIN BUILDING Gr. Floor A-003
8	ENVIRONMENTAL LAB	MAIN BUILDING Gr. Floor A-001
9	GEOTECH LAB	WORKSHOP Gr. Floor & MAIN BULDG
10	APPLIED HYDRAULICS	WORKSHOP Gr. Floor
11	Project Lab	L - 306



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**FROM PRINCIPAL'S DESK:**

Dear All,

*It gives me an immense pleasure to welcome you to VIVA Institute of Technology, Virar affiliated to University of Mumbai, governed by Late Shri. Vishnu Waman Thakur Charitable Trust's. We believe in the fact that "Education is a journey from Information to Knowledge and from Knowledge to Wisdom. The Engineering graduate should be capable to apply knowledge to real time engineering problems and provide solutions, which are technically sound as well as economically viable. Only creative minds can accomplish this task.*

*A Newsletter mirrors the success story of an institution and act as a great medium to reach out to the outer world. It reflects upon the persistent and committed efforts made by faculty, and students for taking the institution one-step ahead. Continuing the same tradition, this issue of newsletter, reflects upon commendable contribution made by all members of Electrical engineering department in their fields of expertise as well as for the overall growth of the institute. I congratulate everyone for their value adding work for the institution and do expect the same in times to come. I also congratulate the editorial team for bringing out present issue of newsletter.*

*VIVA INSTITUTE OF TECHNOLOGY nurtures a unique system of education for creating dynamic leaders in the corporate sector, entrepreneurs, academicians, researchers and professionals who contribute to the development of society and nation at large. It has an aesthetically designed and elegantly built campus furnished with state of art equipment and facilities. Here, education is not only focusing on 4 years B.E. degree course but also creating for the students a platform to realize their dreams, hone their cognition, sharpen their competence and carve out a wholesome personality.*

*Wishing you all the best for the fruitful learning journey at VIVA Institute of Technology and for a bright future!*



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**FROM H.O.D.'S DESK:**

*We as a department are happy to bring out this bulletin for this term during which, the humble efforts of four of our faculty members are recognized in completing M.E. Other faculty members with B E secured admission for ME and are pursuing successfully. Civil engineering department has a long way to go in the pursuit of excellence, but their dedication and diligent efforts in training the students is a clear indication of our growth and quality. This will surely take our students to commendable heights in the field of higher education and entrepreneurship. We believe in excellence with ethics and are very particular in striving towards the same. We begin to realize the fact that any sort of technical lacuna today is like a credit card “enjoy today and pay later.*

*Many of our students are from lower middle class families who have a lot of hidden potential in them but really struggle to come to good positions to support their families. Some of our students showed many commendable beginning which are useful to the Public by writing and publishing a technical book and inventing economical construction material which even fetch them patent.*

*Our frequent field visits, yearly surveying project, drawing project and frequent guest lectures by eminent speakers are remarkable memories for them. They are given opportunities inside the class rooms to express their talents in the language and style of their heart. I am sure that we can make commendable contributions to society which will lift the name of our college high in the near future.*



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**FACULTY DETAILS:**

Sr. No.	Name of the Faculty	Experience in Years
1	Lissy Jose	19
2	Akshay Mistry	8
3	Ramya Raju	7
4	Monica More	7
5	Arathy Menon	6
6	Abhijit Wasave	6
7	Ashish Shetty	6
8	Meena Bhagat	6
9	Pratibha Patil	6
10	Jimit Chotai	6
11	Asmita Bhalke	5
12	Yadnesh Patil	5
13	Ghufran Khan	5
14	Vishal Urade	4
15	Purva Awari	4
16	Prashant Gondane	4





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17	Mayur Patel	4
18	Prerana Patil	5
19	Prachi Bari	4

**FACULTY DEVELOPMENT INITIATIVES**

**Department Library**

The department strives to provide with the best possible opportunity for the staff and the students to enhance their knowledge, departmental library is one initiative taken by the department in this regard.

The departmental library is managed by a staff in-charge. The library gives easy access to the books and research projects for both the faculty and students. Currently the departmental library has over 300 books.

**Appraisal System**

An effective performance appraisal system is a vital instrument for gauging and improving the performance and contribution of the faculty. The institute has a well-defined appraisal and well formatted appraisal system and it is effectively implemented in the department. Every teaching faculty submits self-appraisal forms to the head of the department. The head of the department evaluates the self-appraisal form filled by the faculty and comments on the performance of the faculty. This form is then sent to the principal.

In presence of head of department principal conducts one to one meeting with all the teachers gives feedback/suggestions/comments on the performance. The performance appraisal is carried out in each semester. In every academic year awareness is also created among the faculty about the importance of performance appraisal, in the department.

**Feedback System**



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According to the schedule mentioned in academic calendar, HOD of department takes offline feedback from students. Students are provided with a copy of feedback form which assesses the staff on the basis of parameters. Parameters used to assess the faculties are Way of teaching, Extent of understanding the subject & satisfaction, Ability to clear the doubts, Attitude towards the students, Punctuality, Interaction during lecture, Motivation.

Students also give comments about faculties in a written form. Ratings are calculated on the basis of score and comments given by the students. Depending on the comments and ratings by the students, HOD communicates and guides the staff regarding further improvements through corrective actions. Second meeting with the students is conducted in the same semester to assess the effectiveness of the corrective action undertaken.



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**Short Training Programme: Sustainable Development in Civil Engineering**

<b>Topic Name:</b>	<b>Sustainable Development in Civil Engineering</b>
<b>Name of the Guest Speaker:</b>	1. Mr. Rushabh Karnavat 2. Prof. S. Raji 3. Prof. Vivek Mamdapur 4. Dr. Yogeshwar Navandar 5. Mrs. Yoiana Patil
<b>Date:</b>	22nd June to 26th of June 2020.
<b>Time:</b>	10.00 Onwards

**Programme Summary/Details:**

One week online short term training program on "Sustainable Development in Civil Engineering "under ISTE was organised by Civil Engineering department, VIVA Institute of Technology during 22nd June to 26th of June 2020.

There were 110 participants in the STTP. The participants were from Civil Engineering Discipline. The STTP was inaugurated on 22nd of June 2020, Monday at 9.00 am by HOD civil Engineering Prof. Lissy Jose via meet virtually in the presence of guest speaker Mr. Rushabh Karnavat. The participants were addressed by Prof. Monica More and the details of STTP were shared.

Topic covered in the STTP on "Sustainable Development in Civil Engineering "

- Restoration of RCC structure
- Biomedical Waste Management
- Net Zero Energy Building
- Road Safety Audit
- Metro construction

**Photos:**





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**Guest Lecture:**

(1.)Topic Name: SURVEYING I

Name of the Guest Speaker: Mr. Ramesh Parmar

Designation: Surveyor

Organization/Institution: Lawrence and Mayo

Date: 09/07/2019

Programme Summary/ Details: A Guest delivered the topic of the lecture was "Plane Table Surveying" in which he explained to the students about the feature and characteristics of Surveying. Also he told to the students about chain Surveying, Leveling and Contouring. He also taught the students about the role of Advanced Surveying Technology in fields. Surveying or land surveying is the technique, profession, art, and science of determining the terrestrial two-dimensional or three-dimensional positions of points and the distances and angles between them. A land surveying professional is called a land surveyor. The topic covered for the lecture was 'Modern techniques of Surveying using GPS. These points are usually on the surface of the Earth, and they are often used to establish maps and boundaries for ownership, locations, such as the designed positions of structural components for construction or the surface location of subsurface features, or other purposes required by government or civil law, such as property sales.





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(2.)Topic Name: A H

Name of the Guest Speaker:

Prof. Shreeshail Heggond

Designation:

Assistant Professor

Organization/Institution:

St. John's College of Engineering and Technology

Date:

24/09/2019

Programme Summary/ Details: It was organized with the focus to transfer the knowledge directly from the people who mastered the technologies to the grooming students of VIT. A total of 108 students from fifth semester Civil Engineering have attended the lecture and gained information on the technology of driving force of the industries. The lecture was well organized with the start from the need of fluid power technology to the modern manufacturing and infrastructure industries. It was then taken through the International Standards followed in the field of fluid power technology. Also the topic covered was 'Dimensional Analysis and then comes the objective of this talk, various problems arise in different components of hydraulics during its service life was discussed with few examples. Ways of overcoming these difficulties were also delivered by the speaker. Trouble shooting procedures for each and every component in hydraulics were touched up on by the expert.





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(3.)Topic Name:	Quantity, Survey Estimation and Valuation
Name of the Guest Speaker:	Prof. Rushabh Karnavat
Designation:	Chartered Engineer
Organization/Institution:	Structural and Project Management Company
Date:	30/09/2019

Programme Summary/ Details: It was organized with the focus to transfer the knowledge directly from the people who mastered the technologies to the grooming students of VIT. A total of 108 students from seventh semester Civil Engineering have attended the lecture and gained information on the modern and accepted practice in the market regarding the valuation and estimation process. The lecture was well organized with the start from the need of theoretical knowledge and how to bridge the gap between the theoretical knowledge and practical world. It was then taken through the International Standards followed in the field of Civil Engineering. Then comes the objective of this talk, on ‘Tendering and Valuation’ ways of overcoming these difficulties were also delivered by the speaker. Trouble shooting procedures for each and every component in this topic were touched up on by the expert.







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