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Vidyavardhini's College Of Engineering & Technology, Vasai Road

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(Approved by AICTE, DTE Maharashtra and Affiliated to University of Mumbai)

NBA & NAAC Accredited

Civil Engineering

Home»Civil Engineering

Dr. Ajay Sudhir RadkeA warm welcome to the Civil Engineering department. The department of the Civil engineering is established in the 2013 in the Vidyavardhini?s College of Engineering and Technology. The Civil Engineering department aims a topmost Institution by generating professional with higher degree of technical knowledge, proficient skills and principled values. The Department of Civil Engineering along with its multi-layered faculty sustains its robust relations with the industry and other institutes by organizing various events such as Product Showcase and Vidyavardhini?s National Project Showcase (VNPS). The students are always invigorated to participate extra-curricular and co-curricular events which are essential for the building a team spirit and development of administrative skills results in their personality development. I believe that the students of the department would rationalize the reliability of the department by presenting a extraordinary level of proficient ability in their corresponding job areas.

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The composition of the PAQIC for the Department of Civil Engineering is as follows:Members:1. Dr. Ajay Radke HOD, Civil Engineering,(Chairman)2. Mr Jaydeep Chougle member Civil Engineering Department3. Mr. Arbaz Kazi member Civil Engineering Department4. Dr. Uday Aswalekar HOD Mechanical Engineering5. Dr. Ashish Vanmali Associate Professor Information Technology6. Mrs. Puja Kadam Civil Engineering Department (Coordinator)Roles and responsibilities:The roles and responsibilities of the PAQIC are as follows:Devise Standard Operating Procedure for assessment and evaluation of Outcome Based Education (OBE) for the program.Confirming the linkage of PO, PSO and CO with of institute and department vision, mission .Periodic review of assessment data & identification of gaps/shortfalls in programRecommend plan of action to bridge the gap and monitor its implementationReview of quality/relevance of assessment processes and tools for attainment of COs, POs and PSOsPreparing the compliance report as per requirement of accreditation activitiesPeriodic revision of Program Educational Objectives (PEOs), PSO etc.The PAQIC Coordinator will hold the responsibility of scheduling of meeting, recording of Minutes and compiling the action taken reportFrequency Of Meeting:Minimum 2 per academic year

The composition of the PAQIC for the Department of Civil Engineering is as follows:

Members:

Roles and responsibilities:

Frequency Of Meeting:

VisionTo transform students into creative and technically proficient Civil Engineers to serve the

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

Vision

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

Mission

Departmental Advisory Board (DAB)The Departmental Advisory Board (DAB) has been formed with the purpose of remaining up to date with the latest requirements of the industry, academics and incorporating necessary components in the curricular and extracurricular activities.The DAB is composed of representative members from eminent institutions, industry, alumni, parents, students and faculty of the department.Following are the members of the committee for three consecutive academic year starting from 2022-23.SR.NO.NAME OF THE MEMBERDESIGNATIONORGANIZATIONROLE IN DAB1Dr. Harish

VankudrePrincipalVCET, VasaiChairman2Dr. Vikas GuptaDean, AcademicVCET, VasaiVice-Chairman3Dr. Ajay RadkeHOD, CivilVCET, VasaiConvener4Mr. Sanjeev R. RajeVice PresidentNavdeep Construction Company, Mumbai.Industry Member5Mr.Pramod MishraDirectorDetailed Steel Solution India, Vasai.Industry Member6Dr. Seema JagtapProfessor and HOD Civil Dept.,Thakur College of Engineering and Technology, Kandivali, Mumbai.Academic

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Member7Mr. Vaibhav PatelSr. Project Engineer,Tulip Consultant Pvt. Ltd., Mumbai.Alumni Member8Ms. Darpita GharatStudentVCET,VasaiStudent Member9Dr. Viren ChandanshiveAssistant ProfessorCivil Dept., VCET.Faculty Member

Departmental Advisory Board (DAB)

Program Outcomes (POs):1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.2. 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.3. . Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.4.Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.5. Modern tool 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.6.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.7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.8.Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.9.Individual and

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team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.10.. 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.11. . Project management and 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.12. 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.Program Educational Objectives (PEOs):1. To develop the ability among the students to implement innovative and creative ideas as a Civil Engineering professional.2. To prepare students capable of providing efficient design and development services in the core and allied fields of Civil Engineering.3. To inculcate professional and ethical values for providing sustainable solutions to Civil Engineering problems.Program Specific Outcomes (PSOs):At the end of the program engineering graduate will be able to:1. Employ various approaches, ideologies, code of practice and soft tools for computing and designing real world problems related to Civil Engineering.2. Demonstrate technical aspects, teamwork, managerial and professional skills necessary for efficient solution.

Program Outcomes (POs):

Program Educational Objectives (PEOs):

Program Specific Outcomes (PSOs):

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Dr. Ajay RadkeProfessor & HOD Civilajay.radke@vcet.edu.inMr. Jaydeep ChaugaleAsst. Prof. (Ph.D pursuing)jaydeep.chougale@vcet.edu.inMs. Puja KadamAsst. Prof.puja.kadam@vcet.edu.inDr. Viren ChandanshiveAsst. Prof.viren.chandanshive@vcet.edu.inMr. Vikrant KothariAsst. Prof. (Ph.D pursuing)vikrant.kothari@vcet.edu.inMr. Arbaz KaziAsst. Prof.arbaz.kazi@vcet.edu.inMr. Prakash PandaAsst. Prof.prakash.panda@vcet.edu.inMs. Aishwarya AnilAsst. Prof.aishwarya.anil@vcet.edu.inMr. Nikhil GavadAsst. Prof.nikhil.gavad@vcet.edu.in

Dr. Ajay Radke

Mr. Jaydeep Chaugale

Ms. Puja Kadam

Dr. Viren Chandanshive

Asst. Prof.

Mr. Vikrant Kothari

Mr. Arbaz Kazi

Mr. Prakash Panda

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Ms. Aishwarya Anil

Mr. Nikhil Gavad

Asst. Prof.

nikhil.gavad@vcet.edu.in

Faculty List2023-242022-232021-222020-21

Faculty List

Student List2023-242022-23

Student List

Placement Record

Slide 1Applied Hydraulics LaboratoryLab in-chargeDr. Ashutosh DabliHardwareImpact of jet on vanes, Francis Turbine, Pelton Wheel Turbine, Tilting Flume, Three Phase Centrifugal & Reciprocating Pump.FeaturesThis laboratory deals with the experiments based on hydraulics and various water resources applications. This Laboratory is designed to educate the students of T.E. Civil.Slide 1Research LaboratoryLab In-ChargeMr. Nikhil GavadHardwareHP 280 G5 SFF desktop with i5 /10 th gen/ 8Gb/512SSD, 19.5? Monitor (20 Unit)FeaturesThis lab desktops are equipped

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with softwares like? ETABS Version-20 Ultimate? Auto CAAD 2023 (Student Version)? Microsoft Office (Campus License)It is used by all Civil Engineering students for SBLC Labs & project researchSlide 1Fluid Mechanics LaboratoryLab In-ChargeMr. Prakash PandaHardwareBuoyance & Metacentric height apparatus Bernoulli?s theorem apparatus Close circuit calibration rig for measuring discharge through venturi meter and orifice meter Close circuit apparatus for determination of co efficient of discharge of orifice and mouthpiece Flow through nozzles Reynolds Apparatus.Wind Tunnel.FeaturesThis laboratory deals with the experiments based on Fluid Mechanics and various water resources applications. This Laboratory is designed to educate the students of S.E. Civil.Slide 1Project LaboratoryLab In-ChargeMr. Vikrant KothariHardwareTotal Station, GPS, Transit Theodolite, Dumpy Level, Auto Level, Equipments necessary for linear measurements.FeaturesThis laboratory is equipped with high quality & advanced Surveying equipments. It is designed to educate students of SE Civil in IVth Semester in different areas of engineering survey.Also Project lab is used for SE, TE & BE students for Minor & Major Project research work.Slide 1Transportation Engineering LaboratoryLab In-ChargeDr. Viren ChandanshiveHardwareMarshal Stability Test, Aggregate Impact Value, Crushing Strength, Ductility Test Apparatus, etc.FeaturesThe transportation Laboratory is well equipped with advanced equipment?s to carry out various test on aggregate and bitumen. Tis laboratory is designed to students of TE Civil. Also this laboratory is used to carried out the research work of BE Civil studentsSlide 1Geotechnics LaboratoryLab In-ChargeMr. Arbaz KaziIHardwareConsolidation Test Apparatus, C.B.R. Test Apparatus, Triaxial Testing Machine.Different Types of stonesFeaturesLab is well furnished and equipped with advanced Soil and Material testing equipment.Lab also deals with the identification of various types of minerals & rocks like igneous, sedimentary, metamorphic etc. This laboratory is designed to educate S.E. Civil students.Slide 1Building Materials and Construction Technology LaboratoryLab In-ChargeMr. jaydeep ChougaleHardwareTile Flexure

Scraped Data

Strength Testing Machine +Accessories, Compression Testing Machine, Hot Air Oven, Electronic Balance, Needle Vibrating Machine, Vibrating Table, Concrete Mixer, Slump Test Apparatus, etcFeaturesLab is well furnished and equipped with advanced Material testing equipment?s like CTM, ultrasonic pulse velocity meter (UPV), Rebound hammer, Bar Detector, Carbonation Kit etc. This laboratory is design to educate student of SE, TE, and BE Civil. Final year research work is also carried out in this laboratory.Slide 1Environmental Engineering LaboratoryLab In-ChargeMs Puja KadamHardwareBOD incubator, COD Apparatus, Jar Test Apparatus, etc.FeaturesThis Laboratory is equipped with Hot air Oven, BOD Incubator, COD Digester, Digital Ph meter, Turbidity meter and DO meter, Sound Level meter and glassware?s for performing experiments on quality of water and wastewater. This laboratory is designed to educate students of 6 th semester in different areas of Environmental Engineering.

Lab in-charge

Dr. Ashutosh Dabli

Hardware

Impact of jet on vanes, Francis Turbine, Pelton Wheel Turbine, Tilting Flume, Three Phase Centrifugal & Reciprocating Pump.

Features

This laboratory deals with the experiments based on hydraulics and various water resources

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applications. This Laboratory is designed to educate the students of T.E. Civil.

Lab In-Charge

Mr. Nikhil Gavad

Hardware

HP 280 G5 SFF desktop with i5 /10 th gen/ 8Gb/512SSD, 19.5? Monitor (20 Unit)

Features

This lab desktops are equipped with softwares like? ETABS Version-20 Ultimate? Auto CAAD 2023 (Student Version)? Microsoft Office (Campus License)It is used by all Civil Engineering students for SBLC Labs & project research

Lab In-Charge

Mr. Prakash Panda

Hardware

Buoyance & Metacentric height apparatus Bernoulli?s theorem apparatus Close circuit calibration rig for measuring discharge through venturi meter and orifice meter Close circuit apparatus for

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determination of co efficient of discharge of orifice and mouthpiece Flow through nozzles Reynolds Apparatus.Wind Tunnel.

Features

This laboratory deals with the experiments based on Fluid Mechanics and various water resources applications. This Laboratory is designed to educate the students of S.E. Civil.

Lab In-Charge

Mr. Vikrant Kothari

Hardware

Total Station, GPS, Transit Theodolite, Dumpy Level, Auto Level, Equipments necessary for linear measurements.

Features

This laboratory is equipped with high quality & advanced Surveying equipments. It is designed to educate students of SE Civil in IVth Semester in different areas of engineering survey.Also Project lab is used for SE, TE & BE students for Minor & Major Project research work.

Lab In-Charge

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Dr. Viren Chandanshive

Hardware

Marshal Stability Test, Aggregate Impact Value, Crushing Strength, Ductility Test Apparatus, etc.

Features

The transportation Laboratory is well equipped with advanced equipment?s to carry out various test on aggregate and bitumen. Tis laboratory is designed to students of TE Civil. Also this laboratory is used to carried out the research work of BE Civil students

Lab In-Charge

Mr. Arbaz Kazil

Hardware

Consolidation Test Apparatus, C.B.R. Test Apparatus, Triaxial Testing Machine.Different Types of stones

Features

Lab is well furnished and equipped with advanced Soil and Material testing equipment.Lab also

Scraped Data

deals with the identification of various types of minerals & rocks like igneous, sedimentary, metamorphic etc. This laboratory is designed to educate S.E. Civil students.

Lab In-Charge

Mr. jaydeep Chougale

Hardware

Tile Flexure Strength Testing Machine +Accessories, Compression Testing Machine, Hot Air Oven, Electronic Balance, Needle Vibrating Machine, Vibrating Table, Concrete Mixer, Slump Test Apparatus, etc

Features

Lab is well furnished and equipped with advanced Material testing equipment?s like CTM, ultrasonic pulse velocity meter (UPV), Rebound hammer, Bar Detector, Carbonation Kit etc. This laboratory is design to educate student of SE, TE, and BE Civil. Final year research work is also carried out in this laboratory.

Lab In-Charge

Ms Puja Kadam

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Hardware

BOD incubator, COD Apparatus, Jar Test Apparatus, etc.

Features

This Laboratory is equipped with Hot air Oven, BOD Incubator, COD Digester, Digital Ph meter, Turbidity meter and DO meter, Sound Level meter and glassware?s for performing experiments on quality of water and wastewater. This laboratory is designed to educate students of 6 th semester in different areas of Environmental Engineering.

SETEBE1. Ghule Amey : 9.44 SGPI1. Medge Jeevan : 9.39 CGPI1. Dhanawade Pooja : 9.84 CGPI2. Solanki Pratham: 9.13 SGPI2. Shetty Deeksha : 8.74 CGPI2. Sankhe Manali : 9.53 CGPIAnsari Mohammed Faraz3. Jagtap Apurva : 8.77 SGPI3. Ghelani Jeet : 8.52 CGPI3. Nazreen Khatoon: 9.21 CGPISalunkhe Roshani

Syllabus UG

:SE R-16TE R-16BE R-16Syllabus 2019-20SE R-19 ?C? schemeTE R-19 ?C? schemeBE R-19 ?C? schemePO PSO CO

:R16R19Syllabus PG

:ME Rev 2022

Syllabus UG

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Syllabus 2019-20

PO PSO CO

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Syllabus PG

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Innovation in Teaching Learning :Year 2022-23Year 2021-22Year 2020-21ICT Tools in Teaching Learning :Year 2022-23Year 2021-22Year 2020-21

Innovation in Teaching Learning :

ICT Tools in Teaching Learning :

MoU :MoU List

MoU :

NewsletterNEWS LETTER ODD SEM 2023-24NEWS LETTER EVEN SEM 2022-23NEWS LETTER ODD SEM 2022-23NEWS LETTER EVEN SEM 2021-22NEWS LETTER ODD SEM 2021-22NEWS LETTER EVEN SEM 2020-21NEWS LETTER ODD SEM 2020-21NEWS LETTER EVEN SEM 2019-20NEWS LETTER ODD SEM 2019-20Committee DetailsStaff InchargeDr. Viren Chandanshiveviren.chandanshive@vcet.edu.in

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Newsletter

Committee Details

Staff Incharge

Dr. Viren Chandanshive

VCET-ADT CELLAbout usVidyavardhini was established as a registered society in 1970 by late Padmashri H. G. alias Bhausaheb Vartak for the noble cause of education in rural areas.Vidyavardhini?s College of Engineering and Technology (VCET), Vasai is affiliated to University of Mumbai and approved by DTE and AICTE. The institute is accredited by NAAC and National Board of Accreditation (NBA).VCET?s Civil Engineering Department has an Audit, Design and Testing (ADT) Cell to provide audit, design and testing services in Civil Engineering. The department has a technical work force of 11 Civil Engineers with at least Master?s degree in Civil engineering?s diverse fields and 4 assisting staff.Vision: ?To be an eminent institute providing ?credible, reasonable and sustainable? solutions in civil industry.Mission: ?M1: To provide Audit services, such as Third-party audit to Government, Semi government and Private organizations; conduct structural audit and provide retrofitting or repair solutions.M2: To provide Design services for stable, durable, elegant, and cost-effective building design for structures, green building solutions and other sustainability solutions.M3: To conduct Geotechnical investigation & land survey; material testing of concrete, bricks, tiles, steel, timber, chemicals and provide mix-design.Values: ?Honesty with the profession.Fairness in work, tests, investigation, transactions.Thoughtful solutions ensuring safety and efficacy.Consultancy RecordConsultancy 23-24Consultancy 22-23Consultancy 21-22

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VCET-ADT CELL

About us

Vidyavardhini was established as a registered society in 1970 by late Padmashri H. G. alias Bhausaheb Vartak for the noble cause of education in rural areas.

Vidyavardhini?s College of Engineering and Technology (VCET), Vasai is affiliated to University of Mumbai and approved by DTE and AICTE. The institute is accredited by NAAC and National Board of Accreditation (NBA).

VCET?s Civil Engineering Department has an Audit, Design and Testing (ADT) Cell to provide audit, design and testing services in Civil Engineering. The department has a technical work force of 11 Civil Engineers with at least Master?s degree in Civil engineering?s diverse fields and 4 assisting staff.

Vision: ?

To be an eminent institute providing ?credible, reasonable and sustainable? solutions in civil industry.

Mission: ?

M1: To provide Audit services, such as Third-party audit to Government, Semi government and

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Private organizations; conduct structural audit and provide retrofitting or repair solutions.

M2: To provide Design services for stable, durable, elegant, and cost-effective building design for structures, green building solutions and other sustainability solutions.

M3: To conduct Geotechnical investigation & land survey; material testing of concrete, bricks, tiles, steel, timber, chemicals and provide mix-design.

Values: ?

Consultancy Record

Menu

Useful Links

Contact