

AAKAR

A News Letter
Of
THE DEPARTMENT OF
CIVIL ENGINEERING



Vol: 7 Issue:2 Year:2021-22

**SHRI MADHWA VADIRAJA INSTITUTE
OF TECHNOLOGY & MANAGEMENT**

(A Unit of Shri Sode Vadiraja Mutt Education Trust[®], Udupi)

Accredited by NAAC with 'A' Grade

Vishwothama Nagar, Bantakal, Udupi - 574 115, Karnataka, India

Mobile: +91 7483031199

Website: www.sode-edu.in



SMVITM



Shree Shree Vishwavallabha Theertha Swamiji

Education transforms and refines the human spirit, and a refined human spirit makes that contribution to society which transforms society itself. Today's thinking should not kill the future and hence encouragement and nurturing of innovation and inquiry should become the cornerstone of any educational endeavour.

It is our attempt through the Shri Sode Vadiraja Mutt Education Trust(R) to impart professional education that bridges social gaps and empowers all segments of the society to approach the future with optimism and hope. All facilities both human and otherwise will be provided for the young minds to blossom and meet challenges with confidence.

Our Vision

- To impart a quality holistic education and consultancy, in civil engineering with integrity, societal benefit, ethical standards and sustainable development.

Our Mission

- To provide a value added education to make the civil engineers to address the complex and multi- faceted Civil Engineering problems
- To improvise the industry and institute interaction by interdisciplinary research
- To provide the necessary holistic education to be a leader, planner, decision maker, structural designer, constructor and operator of the built environment



Civil Engineering is the oldest Engineering Profession in the World. The American Society of Civil Engineers was founded in the year 1852. It defines Civil Engineering as the profession, in which a knowledge of the mathematical and physical science gained by study, experience and practice is applied with judgment to develop ways to utilize economically the materials and forces of nature for the progress of well-being of man.

The curriculum is not only a blend of theoretical and practical aspects of varied disciplines of civil engineering such as structural engineering, transportation engineering, geotechnical engineering, and water resources engineering, surveying, but also provides values based education, inculcating the qualities of a responsible engineer who can undertake any challenging project with right understanding towards holistic development of the society.

The booming population and increased demands of sustainable infrastructure in the form of high-end road and railway network, better water supply arrangements and concept buildings provides opportunities and new scope in the civil engineering path. This job is called "evergreen". Students enrolling for admission in civil engineering in 2022 can prepare and train themselves with the right skill set to be instantly employed in to high-end national and international projects.

Dr. Deepika B V

**Associate Professor & Head,
Department of Civil Engineering**

Programme Educational Objectives (PEOs)

The objectives of the Civil Engineering undergraduate program at SMVITM are to develop civil engineers with the following

5 years down the line after graduation, the graduates should have

- A strong foundation for becoming a technically competent human resource in the broad disciplines of Civil Engineering
- Excel in Civil Engineering profession to meet the challenges of construction industry
- Update and adopt modernization in Civil Engineering with lifelong learning
- Preserve the environment for the society by adopting sustainability in Civil engineering with professional ethics

Programme Outcomes (POs)

Graduates of the Civil Engineering program are able to:

PO No	Graduate Attributes	At the end of the programme the student should be able to
1	Engineering Knowledge	Apply knowledge of mathematics, science, and engineering to solve the Civil engineering problems
2	Problem Analysis	Identify the problem, analyze, formulate and apply appropriate Civil engineering techniques to obtain the solutions
3	Design & Development of Solutions	Design Civil Engineering structures, components or processes by considering public health and safety, societal, sustainability and environmental issues
4	Conduct Investigations of Complex Problems	Conduct investigations of problems, search, identify and select relevant information from the literature to provide valid conclusions.
5	Usage of Modern Tools	Use modern tools for solving the engineering issues associated with social and professional context
6	Engineer & Society	Understand the role and responsibility of a Civil Engineer and apply the knowledge for the development of society
7	Environment & Sustainability	Apply the concepts of Civil engineering to minimize the environmental hazards by adopting sustainability in construction activities
8	Ethics	Understand and apply professional ethics for the issues relevant to the Civil engineering practices.
9	Individual & Team Work	Work as a member of a multidisciplinary project or research teams and have an understanding of leadership in teams and organizations.
10	Communication	Produce engineering reports, communicate the thoughts and ideas clearly and effectively.
11	Project Management & Finance	Demonstrate knowledge of the civil engineering project management principles and apply them to manage construction projects
12	Life-long Learning	Understand the need of engaging in life-long learning to update the knowledge in Civil Engineering field
PSO-1	Focus on developing and exposure to alternative/ advanced technologies	Understand, develop and implement state-of-art technologies related to civil engineering
PSO-2	Extension of knowledge and testing facilities for the society	Provide solutions to day-to-day civil engineering problems by extending the intellectual knowledge base and the testing facilities for the society

PROGRAMS CONDUCTED IN EVEN SEM

• "PRERANA"- 2022 - 07th April to 09th April



Seeking the divine blessing of Shri Shri Vishwa Vallabha Theertha Swamiji, the Three Days Faculty Development Program on **"Recent Advancement in Outcome Based Education and Civil Engineering Industry"** - **"PRERANA – 2022"** was inaugurated by Dr. Raviraj H Mulangi, Assistant Professor, NITK Surathkal. In inaugural function, Dr. Raviraj H

Mulangi gave the Keynote address and Wished the Participants to get PRERANA from FDP by gaining advance knowledge regarding the current trends in Civil Engineering. Sri Rathnakumar sir, during his presidential speech provided the importance of FDP and Requested participants to enhance and update knowledge as civil engineering field is seeing a new changes. The Vice Principal Dr. Ganesh Aithal wished all the success for the FDP. Dr. Sandeep J Nayak, Head of Civil Engineering Department provided the Objectives and Scheduling of the FDP. Mr. Madhusoodhana Rao and Mr. Jayaram Nayak B, Assistant Professor, Civil Department, provided the Welcome speech and Vote of thanks respectively.

• **Workshop on C Programming**

The Department of Civil engineering and the Mechanical Engineering jointly organized 3 days of hands-on workshop on C Programming for the benefit of 3rd year students of Mechanical Engineering and Civil Engineering branches. The trainers thoroughly explained and demonstrated the concepts of C programming with the Help of final year students of computer Science Engineering. A total of 45 students participated and benefitted from the workshop.

• **Concious planet-Save soil awareness Program at SVH PU College Innanje, udupi**

The Department of Civil engineering, Eco club of Shri Madhwa Vadiraja Institute of Technology, Bantakal and NSS unit of SVH PU college jointly organized a **"Concious Planet-Save soil"** movement awareness program at SVH PU college, Innanje in college premises on 13 th April 2022.

PROGRAMS CONDUCTED IN EVEN SEM

- Talk on “Application of civil engineering softwares and Demonstration” - Mr. Abhinav

The Department of civil Engineering in association with the ISTE Student Chapter of SMVITM & Sthapathi Student Club was Organised a talk on “Application of Civil Engineering Softwares and Demonstration”, by Mr. Abhinav, Trainer, EduCADD, Udupi on 04th Mayl 2022 for the students of Civil Engineering department.

- Practical Skills are required to Perform Better Says Er.Nagesh Puttaswamy,



Er. Nagesh Puttaswamy, Zonal Head Ultrtech, White Topping & RMD had visited SMVITM campus, on addressed faculty and students emphasizing the importance of professional skills and entrepreneurial qualities. The final year students and third year students were the target audience. Later Mr. Nagesh interacted with

Principal, Vice principal and Head of the department of Civil Engineering and extended his support to conduct value added programs, to assist in international conference and research work at Civil Engineering with emphasis on special Concrete, Mix design etc.

- Alumni Talk - Mr. Naveen Hegde



The software demonstration - Online activity was conducted by Department of Civil Engineering Alumni cell on 22 April 2022 for the Pre final year students of Civil Engineering department. Mr Naveen Hegde (2017-2021 CVE Batch) was the resource person for the event. Mr. Naveen Hegde, Structural Engineer at FBA construction Bangalore, shared his opinion on the use of design

software in the Industries. He demonstrated E-TAB software to make structural detailing and drawing of Residential Building.

PROGRAMS CONDUCTED IN EVEN SEM

- “Symposium on Jasmine Cultivation and effective harvesting”



Civil Engineering department of Shri Madhwa Vadiraja Institute of technology and management in association with Science and Technology Academy, Bangalore organized a symposium on Jasmine cultivation and effective harvesting in the memory of silver jubilee celebration of Vishveshwaraya Technological University under the Unnath Bharath Abhiyan Scheme on 10 May 2022. Program was inaugurated by Ms. Bhuvaneshwari, Assistant Director, Department of Agriculture, Udupi, and Secretary of Shri Sode Vadiraja Mutt Education Trust Shri Rathnakumar.

ACCOMPLISHMENTS

Research Papers Published by Faculties in Journals

Sl. No	NAME OF THE TEACHER(S)	TITLE OF PAPER	PUBLICATION CITATION	JOURNAL TYPE
01	DR. SANDEEP J NAYAK	Augmentation of groundwater recharge through infiltration studies in Puttur of Dakshina Kannada District, karnataka	IRJET, Vol-8, Issue-05, May 2021	International
02	DR. SANDEEP J NAYAK	Comparative Studies of infiltration at Coastal Districts for better management practices	IFERP, Vol-8, Issue-11	International

KSCST STUDENT PROJECTS (2021-2022)

Sl. No	PROJECT TITLE	NAME OF THE GUIDE(S)	NAME OF STUDENTS
01	KARMIK- A Tool to bridge client and Migrant Construction Labour amid Pandemic	Mr. Roshan S Kotian	Mr. Harish Acharya Mr. Omshri S Pai Mr. Abdul Azeem
02	Novel agriculture methods based on the prediction of climatic and soil condition of the udupi region	Dr. Sandeep j nayak	Mr. Prathik prabhu Mr. Siddharth r pujari Mr. Ramesh g kamath
03	A new approach to enhance the yield of jasmine crop - a case study in shankarpura, udupi district	Dr. Sandeep j nayak Mrs. Deepika bv	Mr. Murli susheel mohan Mr. Ajith patil c s Ms. Bindu k p Mr. Sukesh P
04	A treatment of sullage water using tamarind seed powder as coagulant using coagulant process application for better understanding of flow of code	Ms. Deepika b v	Mr. Shoukath ali k h Ms. Vrandana k g Ms. Kripa shetty h

KSCST Best student Project of the year award, 2021-22

Final year Civil Engineering students of Shri Madhwa Vadiraja Institute of Technology and Management (SMVITM), Bantakal have won the best project award for their 'Sensor based device for predicting moisture content of agricultural field and safe bearing capacity of soil' by Karnataka State Council for Science and Technology for the year 2020-21.

The project work was carried out by Naveen Hegde, Harshavardhan N, Sowrav K, Mohammad Noufal under the guidance of Prof. Sunil Haldankar and Dr. Sachin S Bhat. This sensor based system uses Artificial Intelligence to measure the self bearing capacity and moisture content of the soil. Existing penetration test conducted to measure the soil requires a heavy instrument to carry out the procedure. This new method reduces the overall weight of the hammer from 65 kgs to 20 kgs making it easier for the movement and minimises the labour work. Also the sensors mounted on the device uses AI technology to measure the bearing capacity and other characteristics of the soil on the spot avoiding manual testing in lab. HOD Dr. Sandeep Nayak, Principal Dr. Thirumaleshwar Bhat and Management congratulated the team for their splendid achievement.

INTERNSHIPS :-

Sl. No	STUDENT NAME	COMPANY NAME
01	Meghana	Nirmithi Kendra
02	Aishita M hegde	Sadanand Business Center
03	Ajith Patil C S	Nirmithi Kendra
04	Shoukath Ali K H	High tech construction
05	Rakshith	Nirmithi Kendra
06	Yuvaraj	A.G associate udupi
07	Mohamed Daniyal B G	Shrinidhi Constructions, Shivamogga
08	Abdul Azeem	A. G Associates
09	Bindu K P	Ekaraya Infrastructures & Constructions Pvt. Ltd, Chikamagalur
10	Harish Acharya	
11	Janvi V Nilekani	Konkan Railway Corporaion Ltd.
12	K Vivek Ballakuraya	Konkan Railway Corporaion Ltd.
13	Kripa Shetty H	Nirmithi Kendra
14	Mohammed Faizal Abubakar	Srusti Ventures
15	Mohammed Salman Hyder	A. G Associates
16	Omsree Susheelkumar Pai	Srusti Ventures
17	Prajwal	Kotwal Constructions Pvt Ltd.
18	Prasanna Naik	Nirmithi Kendra

INTERNSHIPS :-

Sl. No	STUDENT NAME	COMPANY NAME
19	Prathik Prabhu	Konkan Railway Corporaion Ltd.
20	Preetham Nayak K J	Konkan Railway Corporaion Ltd.
21	Rakshith	H.R Consultants
22	Rakshith N Naik	St. Antony Constructions
23	Sachin	Konkan Railway Corporaion Ltd.
24	Sharana	A.G associate udupi
25	Shreekanth M Acharya	Ace Technocrats
26	Siddarth R Pujari	BM Associates,Hubli
27	Sudarshan P G	Srusti Ventures
28	Sukesh P	Nirmithi Kendra
29	Vrandana K G	Nirmithi Kendra
30	Deepak	Nirmithi Kendra
31	Jnanesh Kumar	Nirmithi Kendra
32	Murli Susheel Mohan	Nirmithi Kendra
33	Ramesh G Kamath	Nirmithi Kendra
34	Ravi	Nirmithi Kendra
35	Vishwanath	Vision Developers, Koppal

STUDENT ACHIEVEMENTS



Ms. Janvi Nilekani of 2018-2022 batch, has secured **9th** rank in the Visvesvaraya Technological University, Belagavi.



Mr. Chandan K R, the student of Shri Madhwa Vadiraja Institute of Technology & Management, Bantakal (Civil Engineering) has won the first place in the "State level Yoga Championship – 2022" organized by Tapovana Medical College in association with Hospital of Naturopathy and Yogic Science, Davangere on 14th & 15th May 2022.



Mr. Shoukath Ali, Ms. Vrandana and Ms. Kripa Shetty Participated in 45th Series of (2021-2022) Student project programme for the Project titled "Treatment of Sullage water using Tamarind Seed Powder as Coagulant using Coagulation Process" under the guidance of Ms. Deepika B V and won Best Project of the year at VTU.

FACULTY ACHIEVEMENTS



Ms. Deepika B V completed her **Ph.D** under the guidance of Dr. C R Ramakrishnaiah on the thesis titled "Assessment of Groundwater Vulnerability using GIS-Based DRASTIC Model A Case Study in Udupi District, Karnataka State India"