V.S.B.
ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)
KARUR
(Anna University Recognized Research Institute)

National Board of Accreditation
FOR CSE, ECE, EEE, MECH, IT, CIVIL, BME, BT, CHEM DEPARTMENTS

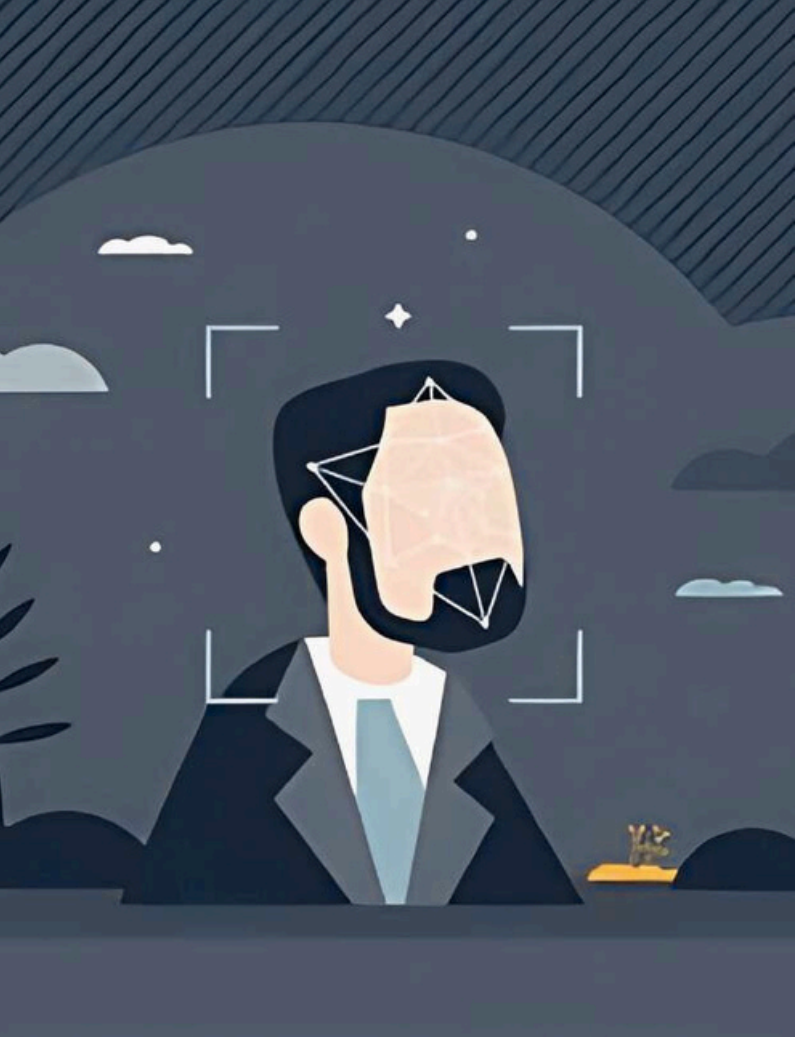
NAAC Accredited

DEPARTMENT OF CIVIL ENGINEERING

CIVILSPHERE

JUNE 2024

EDITION



What's inside?

- Department events round up
- NPTEL Stars
- Placements
- Publications
- VSB Unplugged
- Student's Achievement
- Lifelong Learners
- Hall of Merit

About VSB

V.S.B. Educational Trust was founded inthe year 2000 by Mr. V.S. Balsamy, the founder and correspondent of the V.S.B.Engineering College, with an interest in promoting, managing andadministrating educational institutionswith high academic standards,discipline and to take up and help other allied activities in the field of education.Under the Trust, V.S.B. Engineering College was established in the year2002 and V.S.B College of Engineering Technical Campus in the year 2012.

About Civil

The Department of Civil Engineering was started in the academic year 2011-12 with an aim of promoting high quality education in the field of Civil Engineering. The department has well equipped laboratory facilities andhighly qualified faculty members having rich experience in teaching and industrial background. The department is aiming totransform itself into a Centre of Excellence both in academic and research. Thedepartment provides a right kind ofenvironment for the students to groom themselves for innovative and challenging near future VSB

Vision of the Department

To become a centre of academic excellence and to bring out quality civil engineers with global standards and social responsibilities

Mission of the Department

- Developing competent engineers by integrating excellent teaching, learning and research activities.
- Creating interaction with industries to meet global challenges.
- Motivating the students for higher studies and entrepreneurship.
- Including moral and ethical values in students

THINK. LEARN. COMPETE:

DEPARTMENTAL EVENTS ROUND-UP

Art met sustainability in the **Recycling Art Competition** conducted by the Eco Club, where students gave a second life to discarded materials and proved that waste is just creativity waiting to happen.

The Department of Civil Engineering organized a webinar titled "**Insights into Entrepreneurship**", aimed at nurturing an entrepreneurial mindset among students. The session provided valuable guidance on transforming ideas into successful ventures, understanding market needs, and overcoming the challenges faced by young entrepreneurs. The speaker Er. K. N. Easwaran shared real-world experiences and motivated students to explore innovation and self-employment as career pathways. The interactive session inspired participants to think beyond traditional career routes and consider building something of their own.

THINK. LEARN. COMPETE:

DEPARTMENTAL EVENTS ROUND-UP

The Departments of Civil and Chemical Engineering jointly organized a webinar on "**IPR Awareness on Patents and Designs**", aimed at educating students on the significance of intellectual property rights in engineering innovation. The session was delivered by Mr. M. Elamparithy, an expert in IPR, who provided valuable insights into the patent filing process, design protection, and the importance of safeguarding original ideas in both academic and industrial research. The session helped students understand how to transform innovative thinking into legally protected intellectual assets, encouraging a culture of creativity and innovation.

The Department of Civil Engineering organized an enlightening webinar on "**How to Plan for a Startup – Legal and Ethical Steps**", presented by Mr. Simiyonraj. The session focused on guiding aspiring student entrepreneurs through the initial stages of launching a startup, emphasizing the importance of a strong legal foundation and ethical business practices. Key topics included business registration, intellectual property, regulatory compliance, ethical decision-making, and building a sustainable business model. The webinar inspired students to think entrepreneurially and equipped them with the knowledge to navigate the startup ecosystem responsibly.

THINK. LEARN. COMPETE:

DEPARTMENTAL EVENTS ROUND-UP

The Department of Civil Engineering observed **World Environment Day** with a special session by Dr. V. Aruna Janani, who delivered an inspiring talk on the theme of "Our Land, Our Future". The session emphasized the importance of sustainable living, environmental protection, and individual responsibility in preserving natural resources. Dr. Aruna Janani highlighted real-world environmental challenges and shared actionable solutions that students can adopt to contribute towards a greener future. The event aimed to instill eco-conscious values among budding engineers and encourage environmental stewardship.

LIFELONG LEARNERS: FACULTY EXCELLENCE AND DEDICATION

Our faculty members continually strive for excellence by actively upgrading their knowledge and skills. As a part of this ongoing commitment, several of our dedicated professors have successfully completed NPTEL certifications in their respective domains. These certifications reflect not only their subject expertise but also their passion for teaching and learning. Their efforts inspire students and strengthen the academic foundation of our department.

Mr. R. Gowrishankar

Mr. R. Gowrishankar, Head of the Department has completed the NPTEL certification on Hydraulic Engineering from IIT, Kharagpur

Mrs. R. Sangeetha

Mrs. R. Sangeetha, Assistant proffesor has completed the NPTEL certification on Foundation Engineering from IIT, Kharagpur

LIFELONG LEARNERS: FACULTY EXCELLENCE AND DEDICATION

Our faculty members continually strive for excellence by actively upgrading their knowledge and skills. As a part of this ongoing commitment, several of our dedicated professors have successfully completed NPTEL certifications in their respective domains. These certifications reflect not only their subject expertise but also their passion for teaching and learning. Their efforts inspire students and strengthen the academic foundation of our department.

Dr. A. Vijayakumar

Dr. A. Vijayakumar, Assistant proffesor has completed the NPTEL certification on Introduction to Internet of Things from IIT, Kharagpur

Mr. K. Rajkumar

Mr. K. Rajkumar, Assistant proffesor has completed the NPTEL certification on Concrete Technology from IIT, Madras

LIFELONG LEARNERS: FACULTY EXCELLENCE AND DEDICATION

Our faculty members continually strive for excellence by actively upgrading their knowledge and skills. As a part of this ongoing commitment, several of our dedicated professors have successfully completed UDEMY certifications in their respective domains. These certifications reflect not only their subject expertise but also their passion for teaching and learning. Their efforts inspire students and strengthen the academic foundation of our department.

Mr. D. Mohamed Nasurudeen

Mr. D. Mohamed Nasurudeen, Assistant proffesor has completed the Udemy certification on Nanotechnology in Civil Engineering

improve algorithmic efficiency.

Mr. X. Joseph Vianny

Mr. X. Joseph Vianny, Assistant proffesor has completed the Udemy certification on Nanotechnology in Civil Engineering

Trailblazing Learners

NPTEL Stars of our Department

HARINI K

KAVIYA R

RISHMA D

SANTHIKA S

PAVAN S

VSB Unplugged: Our Students in the Spotlight

Symposium

S.No	Date	Name of the Conference	Name of Student(s)	Organized by
1	24.08.2024	National Symposium	Harish.K	Velammal Engineering
2	24.08.2024	National Symposium	Saranraj.K.S	Velammal Engineering
3	24.08.2024	National Symposium	Arjun.S	Velammal Engineering
4	24.08.2024	National Symposium	Balamurugan.M	Velammal Engineering
5	24.08.2024	National Symposium	Bharathraj.R	Velammal Engineering
6	24.08.2024	National Symposium	Rajkumar.P	Velammal Engineering
7	24.08.2024	National Symposium	Muruganantham T	Velammal Engineering
8	21.09.2024	National Symposium	Sarubala.M.J	Kongunadu College of
9	21.09.2024	National Symposium	Thenmozhi K	Kongunadu College of
10	21.09.2024	National Symposium	Kanishka V	Kongunadu College of
11	21.09.2024	National Symposium	Deepika S	Kongunadu College of
12	21.09.2024	National Symposium	Prathisha P	Kongunadu College of
13	21.09.2024	National Symposium	Aarthi R	Kongunadu College of
14	24.10.2024	National Symposium	Bharatraj B	KPR Institute of Engineering and
15	24.10.2024	National Symposium	Harikumar S	KPR Institute of Engineering and
16	24.10.2024	National Symposium	Santhosh K	KPR Institute of Engineering and
17	24.10.2024	National Symposium	Tamilazhagan B	KPR Institute of Engineering and
18	24.10.2024	National Symposium	Rahul M	KPR Institute of Engineering and
19	24.10.2024	National Symposium	Durai Pandi M	KPR Institute of Engineering and

Workshops

S.No	Date	Name of the Conference	Name of the Student(s)	Organized by
1	27.09.2024	Workshop	Reegan Penial R	KSR College of Engineering
2	27.09.2024	Workshop	Sivaramakrishnan R M	KSR College of Engineering
3	27.09.2024	Workshop	Pavan S	KSR College of Engineering
4	27.09.2024	Workshop	Hariharan A S	KSR College of Engineering
5	29.08.2024 & 30.08.2024	Workshop	Hariharan M	Saranathan Engineering
6	29.08.2024 & 30.08.2024	Workshop	Pavan S	Saranathan Engineering
7	29.08.2024 & 30.08.2024	Workshop	Perumal R	Saranathan Engineering
8	29.08.2024 & 30.08.2024	Workshop	Sivaramakrishnan R M	Saranathan Engineering

Other Events

S.No	Date	Name of the Conference	Name of the Student(s)	Organized by
1	24.08.2024	Treasure Hunt	Arjun.S	Velammal Engineering
2	24.08.2024	Treasure Hunt	Rajkumar.P	Velammal Engineering

Price Winners: Paper Presentation

S.No	Date of Event	Name of the Conference	Name of Student(s)	Award/Prize Received	Organized by
1	21.03.2025	National Symposium	Harish K	II Prize	Selvam College of Technology
2	21.03.2025	National Symposium	Saran Raj K S	II Prize	Selvam College of Technology
3	27.02.2025	National Symposium	Shabiyon Raj	II Prize	SONA College of Technology
4	27.02.2025	National Symposium	Kamalakanan	II Prize	SONA College of Technology
5	27.02.2025	National Symposium	Tamilazhagan	II Prize	SONA College of Technology
6	27.02.2025	National Symposium	Kiruthick	II Prize	SONA College of Technology

Price Winners: Other Events

S.No	Date of Event	Name of the Event	Name of Student(s)	Award/Prize Received	Organized by
1	21.03.2025	Engineering Link Up	Harikumar S	I Prize	Selvam College of Technology
2	21.03.2025	Engineering Link Up	Santhosh K	I Prize	Selvam College of Technology
3	21.03.2025	Engineering Link Up	Saran Raj K S	I Prize	Selvam College of Technology
4	21.03.2025	Engineering Link Up	Harish K	I Prize	Selvam College of Technology
5	27.02.2025	Draft-off	Selvamani	II Prize	SONA College of Technology
6	27.02.2025	Draft-off	Sri Sowmiya	II Prize	SONA College of Technology
7	27.02.2025	Tech Trivia	Priyanka	II Prize	SONA College of Technology
8	27.02.2025	Tech Trivia	Kishothini	II Prize	SONA College of Technology
9	26.09.2024	Short Film	Bharath Raj R	II Prize	KSR college of Engineering
10	26.09.2024	Short Film	Balamurugan M	II Prize	KSR college of Engineering
11	21.09.2024	Adzap	Sarubala M J	II Prize	Kongunadu College of
12	21.09.2024	Adzap	Thenmozhi K	II Prize	Kongunadu College of
13	21.09.2024	Adzap	Kanishka V	II Prize	Kongunadu College of

STUDENT ACHIEVEMENT

HARINI K

Harini K from IV year has been awarded as the Best Outgoing Student Of the Batch 2021-2025 by our college at Annual and sports day 2025 from the Department of Civil Engineering.

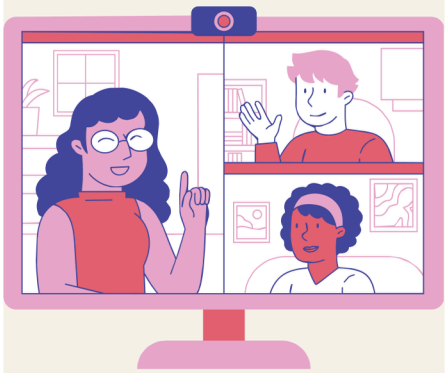
STUDENT ACHIEVEMENT

Students

K.Harish III Year
K.S.Saranraj III year
S.Harikumar II year
K.Santhosh II Year

Event

Students of 3 rd year has participated in the paper presentation which is held on Selvam College of Technology at 21.03.2025



Price Won

Second Price

HALL OF MERIT

Pride of the Department

IV -HARINI K - 8.52

III -DEEPIKA S - 8.63

II -THENMOZHI K - 8.37

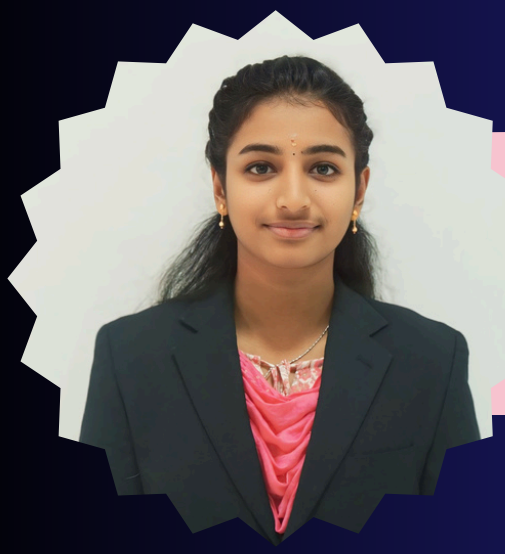
I -PONVANI S - 8.31

INDUSTRY SUPPORTED LABORATORY

To create a practical learning and research environment for Civil Engineering students by equipping a lab with industry-grade tools, technologies, and expertise from a reputed construction company, MOU has been signed with SK Constructions, Erode . The goal is to enhance hands-on skills, bridge the academia-industry gap, and promote innovation in construction practices.
.

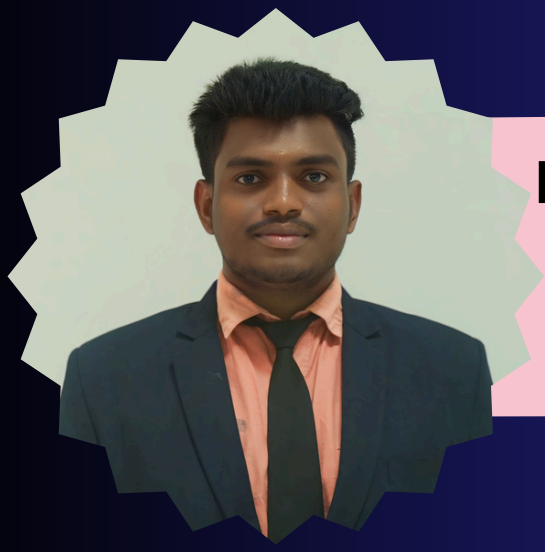
From Campus to Career:

Placement Achievement



Harini. K has placed in
Capgemini - 4.25 Lpa
Quest Global - 5.5 Lpa

Santhika.S has placed in
Capgemini - 4.25 Lpa



Raveen.C has placed in
Ultra Tech - 2.16 Lpa
Timbertruss- 3 Lpa

PUBLICATIONS

Mr. R. Gowrishankar,
Head of the Department

Patents

Our HoD Mr. R. Gowrishankar has published various patents on:

- Geothermal Heating and Cooling System for a Residential Building
- Utilization of Recycled Concrete Aggregate a Sustainable Replacement for Natural Coarse Aggregate in High Strength Concrete
- Utilization of shredded Plastic for Soil Stabilization
- Enhancing the Mechanical properties of concrete Using Husk Rice Ash and Crushed Glass as Sustainable Additives
- Comparative Study on the removal of Chromium for wastewater treatment by moringa seed and saw dust adsorbant
- Textile dye Removal using anaerobic batch reactor
- Extraction of Oil from oil seeds by cold pressing
- Sustainable Concrete Composition Reinforced with Lime-Treated Hemp Fibres for Enhanced Strength and Durability
- Extraction of FUCOIDAN from Sea weeds
- Tretment of Two Industrial Waste Water(SAGO and Textile Dyeing) using UASB Reactor

PUBLICATIONS

PAPERS

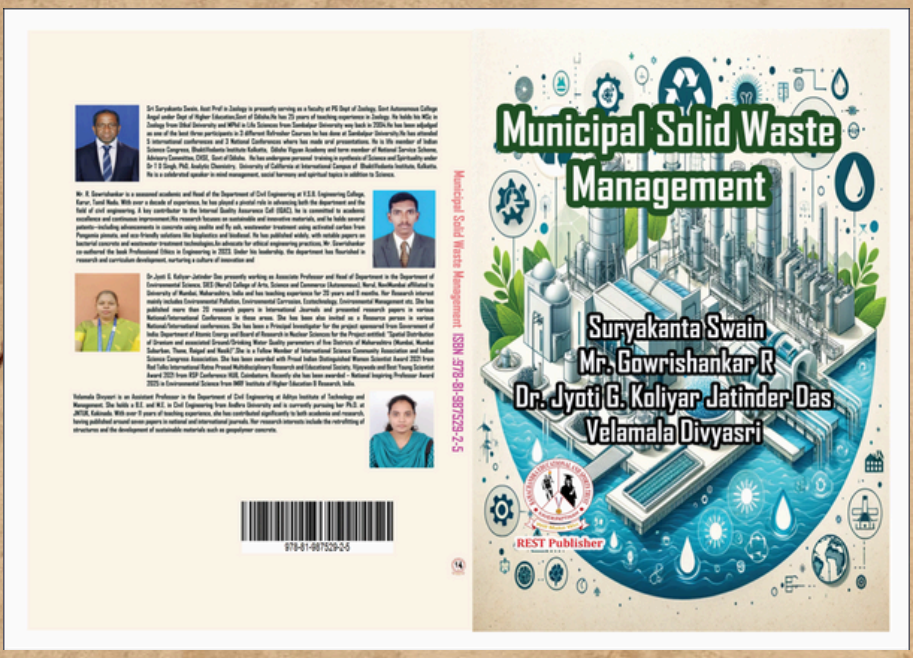
He has also published Journal Papers includes:

- Experimental Investigation on Effective Utilization of Poultry Feathers in Concrete
- Organic Solvent Resistant Membrane Fabrication for Waste Water treatment Process

BOOKS

He has also published Books on:

- Municipal Solid Waste Management
- Design of Steel Structures as Per I.S. 800:2007



PUBLICATIONS

Dr. A. Vijayakumar,
Assistant Professor

Patents

Our Assistant Professor Dr. A. Vijayakumar has published various patents:

- **Utilization of shredded Plastic for Soil Stabilization**
- **Enhancing the Mechanical properties of concrete Using Husk Rice Ash and Crushed Glass as Sustainable Additives**
- **Treatment of Two Industrial Waste Water(SAGO and Textile Dyeing) using UASB Reactor**
- **Ai-Driven Solutions for Promoting Teacher support and Students Learning Engagement in Higher Education**
-

PAPERS

He has also published papers on

- **Experimental Investigation on Effective Utilization of Poultry Feathers in Concrete**
- **An Experimental Study of Stone Matrix Asphalt with Different Filters**
- **Sustainable Mix Design for Ceramic Tiles: Incorporating Red Mud, Flyash and Ceramic Waste**

BOOKS

He has also published books on

- An Experimental Study of Stone Matrix Asphalt with Different Fillers
- **Sustainable Business models for Smart City Using Artificial Intelligence Techniques**

PUBLICATIONS

Mr. X. Joseph Vianny, Assistant Professor

Our Assistant Professor Mr. X. Joseph Vianny has published patent on Enhancing the Mechanical properties of concrete Using Husk Rice Ash and Crushed Glass as Sustainable Additives and paper on Enhancing the Mechanical Properties of Concrete Using Rice Husk Ash and Crushed Glass as Sustainable Additives

Mr. K. Rajkumar, Assistant Professor

Our Assistant Professor Mr. K. Rajkumar has published patent on Experimental Investigation of ultra High Performance Concrete with replacement of Coconut fiber

Beyond Books:

Real world engineering exposure

The students of III Year – Department of Civil Engineering has visited Chettinad Cement Corporation(pt) Limited as part of their industrial exposure program. The visit provided students with a valuable opportunity to understand real-world engineering practices and industry operations. They gained insights into various processes, technologies, and site management techniques relevant to their field. This practical experience helped bridge the gap between classroom learning and field applications, enriching their academic journey and professional perspective.

Annual Day Cultural Program

Hon’ble Mr. Justice P. Vadamalai, Judge, High court of Madras was invited as Chief guest for Annual and Sports day 2025 held on 29.03.2025 and Actors Mr. Arun Vijay, Mr. Vidaarth and Mr. Master Mahendran was invited for Cultural Events

Student's Article

Smart Roads and IoT Integration

One of the most impactful innovations in Civil Engineering is the emergence of smart roads. These intelligent transport systems use IoT (Internet of Things) technology to monitor traffic flow, manage lighting, and even detect accidents in real-time. Embedded sensors and wireless communication systems help in predictive maintenance and efficient traffic control. For example, smart pavements can detect ice formation and automatically trigger de-icing mechanisms. These developments not only improve road safety but also optimize energy use and reduce congestion — a perfect blend of civil and digital engineering for future-ready cities.

HARINI K

Student's Article

Modular Construction Technology

Modular construction is revolutionizing how buildings are made. Instead of constructing everything on-site, structures are built as individual modules in factories and then assembled on location. This method saves time, reduces construction waste, and ensures higher precision in quality. It is especially useful for emergency housing, schools, and hospitals. The controlled environment of factories also reduces exposure to weather-related delays and labor issues. Modular construction proves that speed, quality, and sustainability can go hand in hand — making it a smart solution for today's infrastructure demands.

DEEPIKA S

Student's Article

Sustainable Concrete Alternatives

Concrete is the most used building material in the world, but its production contributes significantly to CO_2 emissions. Recent innovations have introduced eco-friendly alternatives like geopolymer concrete, made using industrial waste like fly ash and GGBS, reducing reliance on cement. Another promising material is self-healing concrete, which repairs its own cracks using embedded bacteria. These sustainable materials not only reduce environmental impact but also improve the durability and lifespan of structures. The future of civil engineering lies in building responsibly — and these materials are paving the way.

THENMOZHI K

Student's Article

3D Printing in Construction

3D printing, once a novelty, is now becoming a game-changer in civil engineering. It allows for the rapid creation of building components and even entire structures using special concrete-based materials. With precise automation, it reduces labor costs, construction time, and material wastage. Iconic examples include 3D-printed houses in Dubai and disaster-relief shelters in Mexico. This technology opens the door to affordable, customizable housing solutions, especially in areas affected by housing shortages. 3D printing is not just about efficiency — it's about redefining how we build in the 21st century.

PONVANI S

Social Media

https://youtube.com/@vsbeccivil?si=xiLJAj3fHqyHcUXG

https://whatsapp.com/channel/0029VaBRLq97z4kcCgo3br2o

https://www.facebook.com/VSBECKarur

https://www.linkedin.com/in/vsbec

https://www.instagram.com/vsbec_karur?igsh=MWM0bm9sOGI0YXV3dA==

MEET THE TEAM!

Editorial Board

Student Editor

SRIDEVI P

IV – CHEMICAL ENGINEERING

Faculty Editor

Mr. R. GOWRISHANKAR

Head of the Department, Civil Engineering

அருமை உடைத்தென் றசாவாமை வேண்டும்
பெருமை முயற்சி தரும்.

Say not, "Tis hard, in weak, desponding hour, For strenuous effort gives prevailing power.

Meaning :

இச்செயலை நம்மாலே செய்ய முடியாதென்று தளர்ச்சி கொள்ளாமல் இருக்கவேண்டும்; இடைவிடாத முயற்சியானது அதனைச் செய்து முடிக்கும் வலிமையைத் தரும்

Yield not to the feebleness which says, "this is too difficult to be done"; labour will give the greatness (of mind) which is necessary.