



CIVIL BUZZ

Accreditation & Rankings

- ❖ Ranked 86th in Engineering Category by NIRF in the year 2024.
- ❖ Accredited by NAAC with Highest grade A++.
- ❖ Accredited by NBA under Tier 1 category since 2018.
- ❖ Recognized as Category – I Deemed to be University by UGC.
- ❖ University of the Year 2023 by Higher Education Review.
- ❖ Ranked in the Band 651-700 in QS Asia University Rankings 2023.

Specific Achievements

- ❖ 84% of faculty members are with doctoral qualification from eminent Institutions like IISc, State University.
- ❖ Faculty members have published 26 papers in per reviewed International Journals (WoS - 5 & Scopus - 19) and attended 15 events (April – August 2024).
- ❖ Presented 8 papers in International Conferences and Published 4 Book Chapters (April – August 2024).
- ❖ Indian IPR – Patent granted: 1, Patent Published: 6, Design Application Registered: 1 (April – August 2024).

Department Vision

To impart knowledge and excellence in Civil Engineering with global perspectives to the student community and to make them ethically strong engineers to build the nation.

Department Mission

- ❖ To produce Civil Engineers of high calibre with advanced technical skills and ethical values to serve the society and the nation.
- ❖ To make the Department as a centre of excellence in the field of Civil Engineering and allied research activities.
- ❖ To provide knowledge base and consultancy services to the community in all areas of Civil Engineering.
- ❖ To promote innovative ideas with original thinking in the minds of budding Engineers to face the future challenges.



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ABOUT THE DEPARTMENT

The Department of Civil Engineering was started in the year 2009 and it offers B.Tech. Programme, M.Tech Programme (Structural Engineering and Environmental Engineering), and Ph.D Programme. The Department has 20 faculty members (most of them with Ph.D. qualifications). The department has been accredited by NBA (Tier I). Most of the faculty members are fellow and member of professional bodies in various fields of Civil Engineering covering the areas of concrete, soil mechanics, water resources and remote sensing. Faculty members continuously update their knowledge by attending training programmes at IISc and other premier Institutions. Active participation of the faculty members in research, consultancy services & sponsored research activities help them to interact with industries and demonstrate the application of concepts in field and improve the teaching learning activities of the department.

HOD'S MESSAGE



Dr. A. Geetha Selvarani
Professor & Head – Civil Engineering

Greetings! It is an immense gratification in producing this newsletter-Civil prominence in all the academic related activities and events organized by the Civil Engineering department. I thank the faculty members and students for their incessant support and encouragement throughout the year in all the ways as usual, which is the prime tractive force of the Department. This news letter covers the substantial number of Guest Lectures delivered by national and international Professors and hands on training by industry experts which are more helpful in sharing ideas pertaining to recent trends and knowledge for the benefit of students and faculty members. Further Faculty members input in effective teaching learning, Implementation of active Learning Methods, their research activities, article publication in reputed Journals, patent filing have been reported.

Activity Based Learning



Learning by Doing Method was implemented in the course “Strength of Materials - II” handled by **Dr. S. Samson**



Data and Tools for Problem Solving method was implemented in the course “Design of Steel Structures” handled by **Dr. A. Chithambar Ganesh**



Model Based Learning method was implemented in the course “Wastewater Treatment and Recycling” handled by **Dr. K. Tamilarasan**

BoS Conducted

The **27th Board of Studies meeting** was held on **22.06.2024**, External members **Dr. S. Senthil Selvan**, Professor, Department of Civil Engineering, SRM Institute of Technology and **Mr. L. Suresh Kumar**, Assistant Engineer, Central Public Works Department, Chennai participated in the meeting along with the Internal members and Alumni of our Department.



Academic Audit

The **academic audit (AY 2023-2024)** for the Department of Civil Engineering was conducted on **10.08.2024**. External expert was Dr. K. Saravanan, Professor – Civil Engineering, Vellore Institute of Technology, VIT Chennai Campus, Chennai and Internal Expert was Dr. Harikrishna Paik, Professor - ECE. The documents were audited in connection with Curriculum Design, Teaching-Learning and Assessment & Evaluation.

Events Organized for Students



The Four Days Value Added Course on **“Advanced Structural Design & Detailing with Tekla Structures”** was conducted during 20.08.2024 to 23.08.2024 to the final year undergraduate students for their career opportunities. The training was provided by

Mr. K. Dhinesh, Structural BIM Modeller, L&T Constructions, Chennai.



The Four Days Value Added Course on **“Land Use Land Cover Mapping and its Applications”** was conducted during 07.08.2024 to 10.08.2024 to the third year undergraduate students to analyze and interpret land use and land cover data using geospatial technologies. The training was provided by

Mr. C. Selvaraj, Managing Director, Athira Geo Spatial Service Pvt. Ltd., Chennai.

Events Organized for Students



Vel Tech
Vellore Institute of Technology

School of Mechanical and Construction
Department of Civil Engineering

Cordially invites for the inauguration of
For an interactive session on

Career Guidance

Resource Person:
Ms. MERIN V
ESAC INSTITUTE OF DESIGN

14th August 2024
@ 1.45 pm

Room 213,
Department of Civil Engineering

Organized by:
Dr. N. Lenin
Professor & Dean - School of Mechanical and Construction
Dr. A. Geetha Srinivasan
Professor & HOD - Department of Civil Engineering

With the Blessings of
Col. Prof. Vel Dr. R. Rangarajan
Founder President & Chancellor
Dr. Sugunthala Rangarajan
Foundress President
Prof. S. Sathyanarayanan
Vice Chancellor

Co-ordinators(s):
Dr. J. Logeshwar, Associate Professor,
Dr. J. Shanmugasriya, Assistant Professor,
Department of Civil Engineering.

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Road, Vel Tech, Avadi,
Chennai - 600042



The “Career Guidance” was conducted on 14.08.2024 for the undergraduate students for their career opportunities. The resource person was **Ms. V. Merin, ESAC Institute of Design.**

Events Organized for Faculties



Vel Tech
Vellore Institute of Technology

School of Mechanical and Construction
Department of Civil Engineering

Cordially invites for the
Faculty Motivational Programme

“Infographics & Statistical Data Visualization for Research”

13th July 2024, THIRUHAN
Civil CAD Lab
Room - 2111

Organized by:
Dr. N. Lenin
Professor & Dean
Office of Mechanical and Construction
Dr. A. Geetha Srinivasan
Professor & HOD
Department of Civil Engineering

Co-ordinators(s):
Dr. S. Sathyanarayanan
Dr. J. Shanmugasriya
Assistant Professor(s)

Dr. G. Maheswaran,
Executive Committee Member,
ISTE, New Delhi.

With the Blessings of
Col. Prof. Vel Dr. R. Rangarajan
Founder President & Chancellor
Dr. Sugunthala Rangarajan
Foundress President
Prof. S. Sathyanarayanan
Vice Chancellor

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Road, Vel Tech, Avadi,
Chennai - 600 042

The One Day Faculty Motivation Programme on “Infographics & Statistical data Visualization for Research” was organized on 13.07.2024 for the faculty members and research scholars of Civil Engineering department to enhance their research capabilities. The training was provided by **Dr. G. Maheswaran, Executive Committee Member, ISTE, New Delhi.**

The following final year undergraduate students were **undergone “Internship”** to the reputed industries / organizations **for their “Major Project”** work.

S. No.	Name of the Student	Company Details
1.	ASODI KUSUMA HARI HARA NADHA REDDY	NSPR Constructions (India) Pvt. Ltd. Hyderabad, Telangana
2.	MONISH PRAVEEN	Mallika Constructions - Creating Elite Properties, Chennai.
3.	SURAJ KUMAR SHARMA	S. P. Singla Constructions Pvt. Ltd. Panchkula, Haryana
4.	ROHIT KUMAR	
5.	RAHUL KUMAR ROY	Central Level Project Implementation unit, Kathmandu, Nepal
6.	DIPENDRA SINGH	
7.	SHRUTHI KUMARI JHA	Road division Chandranighapur, Nepal
8.	POLIMERA AKHIL	KMV Projects Limited, Hyderabad, Telangana
9.	SANDESH MISHRA	Biragunj Municipality, Kathmandu, Nepal
10.	SAILESH KUMAR YADAV	
11.	OM PRAKASH YADAV	Aravind Nirman Sewa, Kathmandu, Nepal
12.	DURGESH KUMAR CHOWDARY	
13.	RUPESH KUMAR RAY	Aravind Nirman Sewa, Kathmandu, Nepal
14.	HISAMUDDIN KHAN	Gaidahwa Rular Municipality, Gaidahawa, Nepal
15.	SUNIL KUMAR GUPTHA	
16.	AANANDA KUMAR GUPTA	Gaidahwa Rular Municipality, Gaidahawa, Nepal
17.	PRABHUNATH TELI GUPTHA	

Internship

The following final year undergraduate student were **undergone “Internship”** to the reputed industries / organizations **for their “Minor Project”** work.

S. No.	Name of the Student	Company Details
1.	SANJAY KUMAR SHRESTHA	Ishworpur Municipality, Sarlahi, Nepal

MoUs Signed



Department of Civil Engineering Signed MoU with **“Concrete Study Circle”** on **14.07.2024** at Hotel NK Grand Park, Chennai. The initiation discussion was happened on 09.07.2024 at Vel Tech Campus.

Events Attended

Events - More than or equal to 5 days

S. No.	Name of the Faculty	Event Details
1.	Dr. M. Vinod Kumar	FDP on Building Resilient Infrastructure organized by Vasireddy Venkatadri Institute of Technology, Andhra Pradesh, from 24 th – 28 th June 2024.
2.	Dr. K.K. Gaayathri	
3.	Dr. J. Anita Jessie	
4.	Dr. A. Chithambar Ganesh	
5.	Mr. S. Baskar	
6.	Dr. J. Logeshwari	FDP on Advanced Materials Characterization Techniques organized by Harcourt Butler Technical University, Uttar Pradesh, from 20 th – 24 th May 2024.
7.	Dr. K.R. Aswin Sidhaarth	FDP on Empowerment of Agriculture using Modern Technology organized by Kongunadu College of Engineering and Technology, from 22 th – 26 th April 2024.
8.	Dr. M. Vinod Kumar	FDP on Empowering Faculty to Foster the Spirit of Entrepreneurship organized by Dr. M.G.R. Educational and Research Institute, from 22 th – 26 th April 2024.
9.	Dr. A. Chithambar Ganesh	
10.	Dr. A. Geetha Selvarani	Short Term Course on Field oriented Challenges in Civil Engineering organized by NIT Jamshedpur, from 05 th – 09 th August 2024.
11.	Dr. M. Vinod Kumar	FDP on Sustainable Construction Practices organized by Koneru Lakshmaiah Education Foundation, from 05 th – 10 th August 2024.

Events Attended

Events - Less than 5 days

S. No.	Name of the Faculty	Event Details
1.	Dr. M. Vinod Kumar	IP Awareness/Training Program under National Intellectual Property Awareness Mission by IPR India, from 23 rd April 2024.
2.	Dr. A. Chithambar Ganesh	Workshop on Composites: manufacturing, Testing and Safety by Anna University, 24 th to 26 th 2024.
3.	Dr. J. Anita Jessie	
4.	Dr. K.K. Gaayathri	

Consultancy

Vel Tech
 Ramaprasad Dr. Saravithala
 Multi-Divisional University of Science and Technology
 The World of Education has started at Vel Tech

Office of Research and Development
 Consultancy Cell

Congratulates...

Faculty members from Department of Civil Engineering, School of Mechanical and Construction for Successfully completed the consultancy project as "Inspection of Third Party Quality Checking" for Dindigul City Municipal Corporation worth of

₹ 1,63,100/-

Dr. G. Kumar
 TTS 2152
 Associate Professor

Dr. M. Vinod Kumar
 TTS 2677
 Professor

Mr. S. Baskar
 TTS 2299
 Assistant Professor

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Consultancy

S.No.	Name of the Faculty & Period	Project Title	Organization	Amount (Rs.)
1.	Dr. M. Vinod Kumar Dr. G. Kumar Mr. S. Baskar APRIL 2024	Inspection of Third Party Quality Checking	Municipal Corporation, Dindigul	1,63,100
2.	Dr. M. Vinod Kumar Dr. G. Kumar Mr. S. Baskar JUNE 2024	Comprehensive Third Party Site Inspection	Chennai Holding and Vishal Developers, Chennai	59,000
3.	Dr. M. Vinod Kumar Dr. G. Kumar Mr. S. Baskar JULY 2024	Comprehensive Third Party Earth Filling Survey Work	Municipal Administration and Water Supply, Thiruthani	88,500

Interaction with Outside World

Dr. S. Samson and Dr. M. Vinod Kumar acted as a One Session - Keynote Speaker for AICTE-ISTE approved Short Term training Program on “Recent Trends in Sustainable Construction Practices in Civil Engineering” during July 08-13, 2024.

Dr. A. Chithambar Ganesh acted as a Resource Person for Guest lecture on “Sustainable Cementitious Material in Construction Sector” held on 30/07/2024 organized by Department of Civil Engineering, Mohan Babu University, Tirupati.

1. Kaviyarasu, M., Alqahtani, M., Rajeshwari, M., & **Sudalaimuthu, G.** (2024). Complex t-Intuitionistic Fuzzy Graph with Applications of Rubber Industrial Water Wastes. *Mathematics*, 12(13), 1950. (Scopus)
2. Raj, J. R. F., Nikshya, J. E., Vinothini, S., Umesh, R., Krishnan, R. S., & **Gopikumar, S.** (2024, April). Hierarchical Deep Learning Framework for Multi-Scale Energy Modeling in Smart Building Environments. In 2024 International Conference on Inventive Computation Technologies (ICICT) (pp. 1-7). IEEE. (Scopus)
3. **Kumar, G.**, Kothandaraman, S., Karuppanan, K., & Hussain, S. (2024). Groundwater Quality and Suitability Assessment in Tirupur Region, Tamil Nadu, India. *Journal of Chemistry*, 2024. (WoS)
4. Vijayakumar, R., **Govindhasamy, K.**, & Kumar, K. S. (2024). The Combined Effect of Pond Ash with Borrowed Soil Materials Along with Milling Waste for Flexible Pavement Sub-Grade Crater Foiling and Strength Characteristic Enhancement. *Ecological Engineering & Environmental Technology (EEET)*, 25(5). (Scopus)
5. Vijayakumar, R., & **Govindhasamy, K.** (2024). Assessment of the Sub-Base Material for the Optimum Moisture Content and Maximum Dry Density Using Amalgamated Pond Ash with Reclaimed Asphalt on Road Pavement. *Journal of Ecological Engineering*, 25(6). (Scopus)
6. Srividhya, S., Prakash, R., **Kumar, M. V.**, Mukilan, K., & Premkumar, R. (2024). Impact of Various Fibers on the Mechanical and Durability Performance of Fibre-reinforced Concrete with SBR Latex. *Journal of Polymer & Composites*, 12(2), 26-40p. (Scopus)
7. Prakash, R., Srividhya, S., Neelamegam, P., Mukilan, K., Premkumar, R., & **Kumar, M. V.** (2024). Fresh and hardened characteristics of a novel alkali-activated geopolymer concrete with GGBFS. *Zastita Materijala*, 65(2), 294-306. (Scopus)
8. **Kandasamy, S.**, Gowdhamramkarthik, P., Arun Kumar, G., Vijayaragavan, J., Thivya, J., (2024). Surface Quality of Concrete Enhanced Through Controlled Permeable Formwork - A Review. *The Indian Concrete Journal*, Vol. 98, No. 4, pp. 17-32. (Scopus)
9. Soundara, B., **Selvakumar, S.**, Kulanthaivel, P., & Raj, N. (2024). Cyclic Swell-Shrink Behaviour of an Expansive Soil with Recycled Geofoam Granules Column Inclusion. *International Journal of Pavement Research and Technology*, 1-15. (Scopus)

10. Kumar, A. S., Kumar, S. P., Arunkumar, K., Sankar, K. V., **Ganesh, A. C.**, Prasanna, N., & Kumar, M. A. (2024). Improving the Mechanical Properties of High-Performance Concrete using Alccofine and Glass Powder. In E3S Web of Conferences (Vol. 529, p. 01040). EDP Sciences. (Scopus)
11. **Ganesh, A. C.**, Kumar, S. P., Raghavi, S. R., Sankar, K. V., Vanjinathan, U., & Kannan, R. (2024). Effect of Molarity of Sodium Hydroxide Solution Over GGBS-based Self Compacting Geopolymer Concrete. In E3S Web of Conferences (Vol. 529, p. 01004). EDP Sciences. (Scopus)
12. **Anita Jessie, J.**, Gaayathri, K.K., & Danish, P. (2024). Application of rsm for the optimization of steel fibre reinforced concrete quality at elevated temperatures. *Journal of applied Science and Engineering*, Vol. 28, No. 2 pp. 421-427. (Scopus)
13. Ramya Swetha, Venu Malagavelli, J. **Cici Jennifer Raj**, 2024. "Pseudo-Static Loading Investigation on the Performance of Steel Frame with and without STRP Bearings as the Base Isolation Material," *SSRG International Journal of Civil Engineering*, vol. 11, no. 5, pp. 34-40. (Scopus)
14. Thirumoorthy, P., Velusamy, S., Nallasamy, J. L., Shanmugamoorthy, M., **Sudalaimuthu, G.**, Veerasamy, S., & Murugasamy, M. V. (2024). Evaluation of groundwater quality for irrigation purposes in hard rock terrain of Southern India using water quality indices modelling. *Desalination and Water Treatment*, 318, 100397. (Scopus)
15. **Tamilarasan, K.**, Shabarish, S., Sharmila, V. G., & Banu, J. R. (2024). Biosurfactant induced microwave disintegration of macroalgae for fermentative biohydrogen production. *Process Safety and Environmental Protection*, 187, 495-505. (WoS/SCI)
16. Raj, N., **Selvakumar, S** (2024). A Review on Biopolymers as an Eco-Friendly and Sustainable Solution for Soil Stabilization. *Lecture Notes in Civil Engineering*, vol 479. Springer, Singapore. (WoS)
17. **Kandaswamy, S.**, Shanmugam, B., Munuswamy, M. G., Thirumoorthy, P., Ashokkumar, L., & Sisubalan, S. (2024). A comprehensive study on microbial self-healing concrete for sustainable construction. *Matéria (Rio de Janeiro)*, 29(2), e20240181. (Scopus).

18. Seenipeyathevar, M. S., Shanmugam, B., Murugesan, V., **Sisubalan, S.**, Alagar, H., & Rajan, D. K. (2024). Increasing structural resilience in high-strength concrete via microbial-based self-healing. *Matéria (Rio de Janeiro)*, 29, e20240253. (Scopus).
19. Syed Muhammad, S. I., **Selvaraj, Kandasamy.**, Jagadeesan, T., & Jagadeesan, V. (2024). Fracture performance of externally FRP strengthened reinforced concrete beams mixed with rigid fibres. *Građevinar*, 76(04.), 309-321. (Scopus).
20. Anish, V., & **Logeshwari, J.** (2024). A review on ultra high-performance fibre-reinforced concrete with nanomaterials and its applications. *Journal of Engineering and Applied Science*, 71(1), 25. (Scopus).
21. Rajeshwaran, R, **Logeshwari, J.**, Abirami, R (2024). Loading Behavior of Sandwich Wall Infill with Opening: An Experimental Study. *SSRG International Journal of Civil Engineering*, 71(1), 25.
22. **Ganesh, A. C.**, Raju, H. P., Margret, L., & Jinendra, U. (2024). Rice Husk Ash based Sodium Silicate as the Alkali Activator in slag based Geopolymer Concrete. In *E3S Web of Conferences* (Vol. 559, p. 04003). EDP Sciences. (WoS)
23. **Jessie, J. A.**, Gaayathri, K. K., Yarramsetty, J., & Ashok, B. A. (2024). Implementation of waste plastic as a sustainable partial replacement of fine aggregate. *Interactions*, 245(1), 150. (Scopus).
24. **Shanmugapriya, J.**, & Chinnaraju, K. (2024). Transport Properties of Internally Cured Self Compacting Concrete with Fly Ash. *Cement-Wapno-Beton= Cement Lime Concrete*, 29(1), 2-15.
25. Ettiyan, A. D., **Karuppiah, T.**, Shankaran, S., & Di Fraia, S. (2024). Green Energy Production and Integrated Treatment of Pharmaceutical Wastewater Using MnCo₂O₄ Electrode Performance in Microbial Fuel Cell. *Sustainability*, 16(13), 1-13. (WoS/SCI).
26. Alzein, R., **Kumar, M. V.**, Raut, A. N., Alyaseen, A., Sihag, P., Lee, D., ... & Singh, T. (2024). Polypropylene waste plastic fiber morphology as an influencing factor on the performance and durability of concrete: Experimental investigation, soft-computing modeling, and economic analysis. *Construction and Building Materials*, 438, 137244. (WoS/SCI).

Conference Presentation

Details of Conference	Presentation Title	Faculty Name
International Conference on Digital Tools and Technologies for Sustainable Construction Sona College of Technology Tamil Nadu. April 04-05, 2024	Optimizing the Strength of Light Weight Concrete Using Construction Site Debris and Bamboo	Dr. G. Kumar, Mr. S. Baskar
	Evaluation of Novel Material Optimization Using Bamboo Biased Proxy Aggregate	Dr. G. Kumar, Mr. S. Baskar
	A Study on Utilization of Subway Spring Water for Domestic Purposes	Mr. S. Baskar
	Green Synthesis of Nanoparticles and Its Application in Dye Effluent Treatment Plant	Mr. S. Baskar
International Conference on Sustainable in Materials, Manufacturing and Automation Kalasalingam Academy of Research and Education, Krishnankoil, Tamil Nadu. April 17-18, 2024	Implementation of Waste Plastic As A Sustainable Partial Replacement of Fine Aggregate	Dr. J. Anita Jessie
National conference on Green Technology and Sustainable Development National Institute of Technology, Patna. May 30-31, 2024.	Cost Effective And Energy Efficient Biohydrogen Production From Marine Macroalgae Through Blended Disintegration Approach	Dr. K. Tamilarasan
International conference on Sustainable Environment and Civil Engineering Dr. DY Patil Institute of Technology, Pune. June 6-7, 2024.	Intelligent Infrastructure Unleashing the Power of IoT in Civil Engineering Modelling and Analysis of Steel Structure with and without base isolation using ETABS	Dr. J. Cici Jennifer Raj

Conference Presentation

Details of Conference	Presentation Title	Faculty Name
<p>International Conference on sustainable Materials & Advances In Renewable Technologies</p> <p>Indian Institute of Technology Bhilai. July 15, 2024</p>	<p>Development of light weight green efficient masonry bricks using waste plastics and industrial wastes for low-cost housing construction</p>	<p>Mr. T. Udhayakumar</p>

Book Chapters

1. Niranjana Reddy, B.L, **Vinod Kumar, M.**, pannirselvam, N., Jyothirmayee., S and Dileep Kumar Reddy., B (2024). Mechanical Properties of Concrete by Adding Plastic as a partial Substitute for Coarse Aggregate to Promote Sustainability on Construction Industry. Futuristic Trends in Construction Materials & Civil Engineering, e-ISBN: 978-93-5747-758-1.
2. Razan Alzein, **M. Vinod Kumar**, Mehmet Serkan Kirgiz, and Raul D. S. G. Campilh (2024). Technological Solutions to Save New, Existing, and Monument Buildings from Seismic Damages and Fracture. Fracture Mechanics: Advances in Research and Applications, ISBN: 979-8-89113-590-1. (Scopus)
3. **Cici Jennifer Raj J, M. Vinod Kumar**, Mehmet Serkan Kirgiz, and Raul D. S. G. Campilh (2024). Strategies to Install Seismic Base Isolation in Construction in Terms of Fracture Mechanics. Fracture Mechanics: Advances in Research and Applications, ISBN: 979-8-89113-590-1. (Scopus)
4. **Cici Jennifer Raj J, M. Vinod Kumar**, Mehmet Serkan Kirgiz, and Raul D. S. G. Campilh (2024). Seismic Isolation in Construction Using Rubber Bearings and Its Application for Saving Earthquake Fracture. Fracture Mechanics: Advances in Research and Applications, ISBN: 979-8-89113-590-1. (Scopus)

IPR - Patent

S.No.	Inventors Name in Vel Tech	Name of the Invention	Application No. & Date	Granted / Published
Patent / Design Application – Granted / Registered				
1	Dr. M. VINOD KUMAR Dr. S. SAMSON Dr. K. TAMILARASAN Faculty Mr. M. SRIDHAR Research Scholar	Lightweight Concrete Bubble Deck Composite Slab Integrated with Various Profiled Steel Sheets	202141054898 & 19/04/2024	Granted
2.	Dr. G. KUMAR Faculty	Medical Instrument for Targeting Rogue Cells	418720-001 & 01/06/2024	Registered
Patent - Published				
1.	Dr. A. CHITHAMBAR GANESH Faculty	Cassava Peel Ash as a Sustainable Cementitious Material	202441030292 & 26/04/2024	Published
2.	Mr. T. UDHAYAKUMAR Faculty Mrs. JAYADURGALAKSHMI Research Scholar	Interlocking Geopolymer Blocks Utilizing E-Waste and Industrial Waste Materials	202441030046 & 26/04/2024	Published
3.	Mr. R. M. SARAVANAKUMAR Faculty	AI based Predicting Solar Generation from Weather Forecasts using Machine Learning	202441031210 & 26/04/2024	Published
4.	Dr. J. CICI JENNIFER RAJ Faculty	Seismic Resistant Building Structure with Fluid Dampers and Recyclable Rubberpad Bearings	202441034243 & 30/04/2024	Published
5.	Mr. S. BASKAR Dr. K. R. ASWIN SIDHAARTH Dr. K. TAMILARASAN Dr. M. VINOD KUMAR Faculty(s)	Exploration Of Powdered Clamshell As A Sustainable Adsorbent For Removal Of Nickel And Mercury From Aqueous Solution	202441024635 & 05/04/2024	Published



Dr. M. Vinod Kumar and Dr. J. Cici Jennifer Raj submitted the proposal for conducting event to the following agencies,

1. **AICTE-Vibrant Advocacy for Advancement and Nurturing of Indian Languages** for the event titled "Two Day Seminar On Smart Cities with IoT for Sustainable Infrastructure".
2. **AICTE Training & Learning Academy (ATAL)** for the event titled "Six Days AICTE - ATAL FDP On Sculpting the Urban Scenery: Exploring the Impact of Smart Materials, IoT and Sensing Technologies for Sustainable Smart Cities".

1. **Dr. J. Shanmugapriya (PI) and Dr. A. Chithambar Ganesh (CO-PI)** submitted the **Seed Research Fund** for the project entitled "Evaluating the Efficacy of Kenaf Fibre as Internal Curing Agent for Self Compacting Concrete".
2. **Dr. S. Gopikumar (PI) and Dr. J. Cici Jennifer Raj (CO-PI)** submitted the **Seed Research Fund** for the project entitled "Optimization of Sustainable Concrete as Filtration Medium for the Treatment of Rubber Industrial Wastewater using Constructed Wetland and Soil Aquifer".

Dr. A. Chithambar Ganesh (PI) and Dr. M. Vinod Kumar (CO-PI) submitted the project proposal entitled "Development of Sustainable Cool Light Weight Alkali Activated Bricks utilizing Wastes" to Chief Minister Research Grant- CMRG- 24 for a budget of Rs. 32,01,000.

Awards & Recognitions

The following 11 Faculty Members were received **“Incentive for PATENTS”** for the period January to April 2024.

Name of the Faculty	Designation	Amount
Mr. T. Nelson Ponnu Durai	Assistant Professor	₹ 10000
Dr. M. Vinod Kumar	Professor	₹ 7500
Dr. A. Chithambar Ganesh	Associate Professor	₹ 5000
Dr. J. Anita Jessie	Assistant Professor	₹ 5000
Dr. K. K. Gaayathiri	Assistant Professor	₹ 5000
Mr. T. Udhaya Kumar	Assistant Professor	₹ 5000
Dr. S. Samson	Professor	₹ 3333
Dr. J. Logeshwari	Associate Professor	₹ 3333
Dr. K. R. Aswin Sidhaarth.	Professor	₹ 2500
Dr. K. Tamilarasan	Assistant Professor	₹ 2500
Mr. S. Baskar	Assistant Professor	₹ 2500

Dr. J. Logeshwari received **“Best Paper Award”** in the International conference on Core Engineering and Technolog held on 15.05.2024 at Peri Institute of Technology, Chennai.



Mr. S. Baskar received **“Outstanding Professional Achievement Award”** in Alumni meet, St. Peters Institute of Higher Education Research, Chennai on 1st May 2024.

Dr. J. Logeshwari received **“Best Paper Award”** in the International Conference (ICFMAM-2024) held on 07.06.2024 at St. Peters Institute College of Engineering and Technology, Chennai.

NPTEL – Faculties

The following Faculty Members of Civil Engineering Department have successfully completed the NPTEL online courses (Jan-Mar 2024 Session)



Elite
NPTEL Online Certification
Funded by the MHC, Govt. of India

This certificate is awarded to
DR K R AGWIN SIDHAARTH
for successfully completing the course
Plastic Waste Management
with a consolidated score of **86 %**

Online Assignments	23.88/29	Proctored Exam	61.25/70
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Total number of candidates certified in this course: 2199

Jan-Mar 2024
(8 week course)

Prof. Narendra Raney
Executive NPTEL
IT Madras

Indian Institute of Technology Kharagpur

swayam

Ref No: NPTEL24CE2000342912 To verify the certificate No. of credits recommended: 2 or 3



NPTEL-AICTE
Faculty Development Programme
(Funded by the MHC, Govt. of India)

This certificate is awarded to
TAMILARASAN KARUPPIAH
for successfully completing the course
Biological Process Design for Wastewater Treatment
with a consolidated score of **84 %**

Prof. Andrew Thangam
NPTEL, Coordinator
IT Madras

Jan-Mar 2024

Ref No: NPTEL24CHE00553401001 Duration of NPTEL course: 8 Weeks

The candidate has studied the above course through MOOCs mode, has completed online assignments and a proctored practical exam. This certificate is awarded according to provisions under QAE of the AICTE Institutions Model NPTEL, 2012, under a special initiative sponsored by MHC, Govt. of India. AICTE - 649 - FDP through MOOCs (2012)



NPTEL Online Certification
Funded by the MHC, Govt. of India

This certificate is awarded to
DR J ANITA JESSIE
for successfully completing the course
Development and Applications of Special Concretes
with a consolidated score of **58 %**

Online Assignments	20.83/25	Proctored Exam	27.12/75
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Total number of candidates certified in this course: 282

Jan-Mar 2024
(8 week course)

Prof. S. V. Subrah Kumar
Executive, Centre for Continuing Education
IT Kharagpur

Prof. Subhaji Ray
NPTEL, Coordinator
IT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Ref No: NPTEL24CE00540345232 To verify the certificate No. of credits recommended: 2 or 3

NPTEL – Students

The following B.Tech. Civil Engineering students have successfully completed the NPTEL online courses (Jan-April 2024 Session)

S.NO.	STUDENT NAME	COURSE NAME	SCORE %
1	DANIEL SHARMA	ENTREPRENEURSHIP ESSENTIALS	48
2	ABHISHEK KUMAR	ENTREPRENEURSHIP ESSENTIALS	54
3	CHINGMAK T CHANG	BASIC OF LANGUAGE SCIENCE	53
4	V RAMALINGAM	ENTREPRENEURSHIP ESSENTIALS	55
5	INOKA H ZHIMOMI	BASIC OF LANGUAGE SCIENCE	54
6	Y JETENDRA	ENTREPRENEURSHIP ESSENTIALS	60
7	CARWYN VYVIAN RYMBAI	BASICS OF LANGUAGE SCIENCE	51
8	INTINONGBOU T CHANG	BASICS OF LANGUAGE SCIENCE	57
9	NILOKA H ZHIMOMI	BASICS OF LANGUAGE SCIENCE	53
10	SANJAY KUMAR SHRESTHA	ENTREPRENEURSHIP ESSENTIALS	56
11	POREDDY SURESH REDDY	ENTREPRENEURSHIP ESSENTIALS	51
12	DEVI SARASWATHI KUNDETI	INDUSTRIAL WASTEWATER TREATMENT	46
13	POREDDY SURESH REDDY	INDUSTRIAL WASTEWATER TREATMENT	51
14	ADHIKARIMAYUM DANIEL SHARMA	INDUSTRIAL WASTEWATER TREATMENT	47
15	JETENDRA YERRAMSETTY	INDUSTRIAL WASTEWATER TREATMENT	47
16	ANANJIT KHANGEMBAM	INDUSTRIAL WASTEWATER TREATMENT	47
17	NILOKA H ZHIMOMI	INDUSTRIAL WASTEWATER TREATMENT	56
18	INOKA H ZHIMOMI	INDUSTRIAL WASTEWATER TREATMENT	58
19	SAMRAJ ALAM MANSURI	INDUSTRIAL WASTEWATER TREATMENT	42
20	SANJAY KUMAR SHRESTHA	INDUSTRIAL WASTEWATER TREATMENT	56

S.NO.	STUDENT NAME	COURSE NAME	SCORE %
21	V RAMALINGAM	INDUSTRIAL WASTEWATER TREATMENT	48
22	MEDHAVI NIROLA	INDUSTRIAL WASTEWATER TREATMENT	48
23	BHUKYA SRUTHI	INDUSTRIAL WASTEWATER TREATMENT	49
24	DEVI SARASWATHI KUNDETI	INDUSTRIAL WASTEWATER TREATMENT	46

Awards & Recognitions

The following 4 Research Scholars were received **“Incentive for PATENTS”** for the period January to April 2024.

Name of the Research Scholar	Mode of Study	Amount
D.G.S. Nivedha	Full Time	₹ 10000
Razan Alzein	Full Time	₹ 5000
M. Jayadurgalakshmi	Part Time	₹ 5000
V. Anish	Full Time	₹ 3333

R. Rajeshwaran (Research Scholar - Part Time) received **“Best Paper Award”** in the International Conference (ICFMAM-2024) held on 07.06.2024 at St. Peters Institute College of Engineering and Technology, Chennai.

R. Rajeshwaran (Research Scholar - Part Time) received **“Best Paper Award”** in the International conference on Core Engineering and Technology held on 15.05.2024 at Peri Institute of Technology, Chennai.

Placements

S.No.	Name of the Student	Name of the Company	Salary
1.	Hisamuddin Khan	Sana Electricity and telephone company limited, Saudi Arabia	7.8 LPA
2.	Kudipudi Syam Babu	Khimji Ramdas LLC, Oman	6.4 LPA
3.	Sheela Raghav	Khimji Ramdas LLC, Oman	6.4 LPA
4.	Praveen Kumar K	Tar Emirates Contracting & Transport, UAE	10.8 LPA
5.	Ramalingam V (Internship cum Placement)	City Constructie (P) Ltd, A&N Islands	1.44 LPA

Higher Studies

B.Tech. Final Year Civil Engineering Student **Raja Vamsi Mamidi** got admission in May 2024 for the Program **"Civil Engineering (MS)"** at **"Florida Tech", USA.**



1. **Raj, N., (Research Scholar – Full Time) (2024).** A Review on Biopolymers as an Eco-Friendly and Sustainable Solution for Soil Stabilization. In: Jose, B.T., Sahoo, D.K., Puppala, A.J., Reddy, C.N.V.S., Abraham, B.M., Vaidya, R. (eds) Proceedings of the Indian Geotechnical Conference 2022 Volume 4. IGC 2022. Lecture Notes in Civil Engineering, vol 479. Springer, Singapore. (WoS)
(Supervisor: Dr. S. Selvakumar)
2. **Saravanakumar, R. M., (Research Scholar – Part Time) (2024, April).** Analysis of four spans continuous beam by using python. In AIP Conference Proceedings (Vol. 3037, No. 1). (Scopus)
(Supervisor: Dr. S. Samson)
3. **Vijayakumar, R., (Research Scholar – Part Time) (2024).** The Combined Effect of Pond Ash with Borrowed Soil Materials Along with Milling Waste for Flexible Pavement Sub-Grade Crater Foiling and Strength Characteristic Enhancement. Ecological Engineering & Environmental Technology (EEET), 25(5). (Scopus)
(Supervisor: Dr. G. Kumar)
4. **Vijayakumar, R., (Research Scholar – Part Time) (2024).** Assessment of the Sub-Base Material for the Optimum Moisture Content and Maximum Dry Density Using Amalgamated Pond Ash with Reclaimed Asphalt on Road Pavement. Journal of Ecological Engineering, 25(6). (Scopus)
(Supervisor: Dr. G. Kumar)
5. **Ettiyan, A. D. (Research Scholar – Full Time) (2024).** Green Energy Production and Integrated Treatment of Pharmaceutical Wastewater Using MnCo 2 O 4 Electrode Performance in Microbial Fuel Cell. Sustainability, 16(13), 1-13. (WoS)
(Supervisor: Dr. K. Tamilarasan)
6. **Rajeshwaran, R, (Research Scholar – Part Time) (2024).** Loading Behavior of Sandwich Wall Infill with Opening: An Experimental Study. SSRG International Journal of Civil Engineering, 71(1), 25.
(Supervisor: Dr. J. Logeshwari)
7. **Alzein, R., (Research Scholar – Full Time) (2024).** Polypropylene waste plastic fiber morphology as an influencing factor on the performance and durability of concrete: Experimental investigation, soft-computing modeling, and economic analysis. Construction and Building Materials, 438, 137244. (WoS)
(Supervisor: Dr. M. Vinod Kumar)

Conference Presentation

Details of Conference	Presentation Title	Student Name
<p>International conference on Core Engineering and Technology Peri Institute of Technology, Chennai 15 May 2024.</p>	<p>Experimental Study on Wall Panel System with Various Core Materials</p>	<p>R. Rajeshwaran (Supervisor: Dr. J. Logeswari)</p>
<p>International conference on Sustainable Environment and Civil Engineering Dr. DY Patil Institute of Technology, Pune. June 6-7, 2024.</p>	<p>Intelligent Infrastructure Unleashing the Power of IoT in Civil Engineering</p> <p>Modelling and Analysis of Steel Structure with and without base isolation using ETABS</p>	<p>Dipshika Howlader Shruti Lal (III Year)</p> <p>Tathagata Majumder Bhopen Singh Kangujam Khanachaobam Loiyumba (Final Year)</p> <p>(Supervisor: Dr. J. Cici Jennifer Raj)</p>
<p>International conference on Recycling and Reuse Istanbul University, Istanbul. July 5-6, 2024.</p>	<p>Participated in the Conference</p>	<p>E. Arul Devi (Supervisor: Dr. K. Tamilarasan)</p>

Editorial Board

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Manikanta Rao (VTU 27158) – III year / Civil Engineering

B. Sri Pujitha (VTU 28344) – II year / Civil Engineering



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