

Name of Faculty Dr. M. VishnuPriyan
 Designation Assistant Professor
 Nature of Job/Appointment Contract
 Date of Joining 05 – 08 –2024
 E-mail vishnupriyan_civil@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Civil Engineering	Awarded
PG	M.Tech (Structural Engineering)	I class
UG	B.E (Civil)	I class

Work Experience

Teaching	3 Years 1 month
Research	3 years 11 month
Industry	1 years 1 month
Others	--

Area of Specialization Structural Engineering

Professional Memberships -

Responsibilities held at Institution Level -

Responsibilities held at Department Level

1. Department Placement Incharge, Vel Tech High Tech, 2018-2020
2. Department entrepreneur cell coordinator, Vel Tech High Tech, 2018-2020

Research Guidance M. Tech student Supervised – 05

Courses Handled at Under Graduate / Post Graduate Level.

UG Level:
 Design of reinforced concrete structures, Design of steel structures, Foundation Engineering, Design of reinforced and brick masonry structures, Surveying I, and Surveying II

PG level:
 Advance Concrete Structures, Advance Steel Structures , etc.

No. of Papers Published National Journals – International Journals –05

Projects Carried out National Conference –0 International Conference – 3

05 projects at PG Level & 08- Projects at UG Level

Patents

1. Title: Artificial intelligence-based techniques to monitor and maintain the quality of drinking water supplied to households. **Published** ; Filed:02-09-2022; Published: 09-09-2022.
2. Title: Usage of wasted Printed Circuit Board (WPCB) as Fibre in Concrete. **Published** ; Filed:21-10-2022; Published: 04-11-2022.
3. Title: Usage of the waste printed circuit board (WPCB) as Fiber in Paver Block. **Published** ; Filed: 03-01-2023; Published: 06-01-2023.
4. Title: Utilisation Of Waste Printed Circuit Board Powder As Replacement For Fine Aggregate In Concrete. **Published** ; Filed: 22-03-2023; Published: 31-03-2023.
5. Title: Utilisation Of Waste Printed Circuit Board Powder As Replacement For Fine Aggregate In Brick. **Published** ; Filed:21-10-2023; Published: 01-12-2023
- 6.. E-waste separation and concrete mixing device. **Design patent.**

Filed- 16-03-2023

Technology Transfer -

Invited Speaker (Few Important/Prominent) -

1. Review board member of Journal of Hazardous, Toxic, and Radioactive Waste (ASCE)
2. Review board member of journal Materials and Structures (Springer)
3. Review board member of KSCE Journal of Civil Engineering (Springer)
4. Review board member of Environmental Science and Pollution Research (Springer)
5. Review board member of Waste and Biomass Valorization (Springer)
6. Review board member of Key Engineering Materials (Scientific.Net)
7. Section Editor (Board member) of Journal of Civil and Hydraulic Engineering.
8. Associate editor (Board member) of Open Access Journal of Waste Management & Xenobiotics (OAJWX)

Awards/honors

BOOK CHAPTERS:

No. of Books/Chapter Published with details

- 1) M.VishnuPriyan, R. Annadurai, "A Study on the Mechanical Properties of the Brick with PCB Powder" https://doi.org/10.1007/978-981-99-6229-7_27.
Lecture Notes in Civil Engineering. (SCOPUS Indexed)

FDPs:

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings (Attended and/or Organized).

- (1) Participated through online in "3 Days Online FDP on "Recent Trends in Environmental Engineering" organized by Dept. of Civil Engg., Mohamed Sathak A J College of Engineering, 4-6 June 2020. Successfully completed two weeks Online Faculty Development Program on STAAD PRO, Organized by the APSSDC from 16th AUG 2021 to 3rd Sept 2021.
- (2) Participated through online in "Art of Writing Research / Review Articles for Publishing in peer Reviewed Journals" organized by MES College Erumely, Kottayam, Kerala, India, on 25th May 2020.

Publications: 10 (* list enclosed)

Refereed International Journals: 35

Details of Journal Publications/Conferences (National and International)

Conference proceedings: 03 [03(Int. conf.)]

Text Books : -

Book Chapters : 01

International Journal

1. **VishnuPriyan Mari Muthu** and A Ramasamy "Investigation of the Mechanical Properties of M40-Grade Concrete with PCB Fiber from Recycled Electronic Waste", **Journal of Hazardous, Toxic, and Radioactive Waste**. [https://doi.org/10.1061/\(ASCE\)HZ.2153-5515.0000725](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000725) . (Impact Factor- 2.7)
2. **M. VishnuPriyan** and R. Annadurai, "A study on the macro-properties of PCB fibre-reinforced concrete from recycled electronic waste and validation of results using RSM and ANN", Asian Journal of Civil Engineering . <https://doi.org/10.1007/s42107-023-00595-4> (**SCOPUS Indexed**).
3. **VishnuPriyan** and R. Annadurai, "Investigation of the effect of substituting conventional fine aggregate with PCB powder on concrete strength using artificial neural network", Asian Journal of Civil Engineering . <https://doi.org/10.1007/s42107-023-00700-7> (**SCOPUS Indexed**).
4. **M.VishnuPriyan** and R. Annadurai, "Experimental Investigation of Mechanical and Durability Properties of Waste Printed Circuit Board (WPCB) Reinforced Concrete and Validation Using Response Surface Methodology and Artificial Neural Network", <https://doi.org/10.3389/fmats.2023.1189274>. **Frontiers in Materials**. (Impact Factor- 3.9)

5. **M.VishnuPriyan**, R. Annadurai, Kennedy C. Onyelowe, George Uwadiogwu Alaneme Nimay, and Chandra Giri "Recycling and sustainable applications of waste printed circuit board in concrete applications validation using response surface methodology". <https://doi.org/10.1038/s41598-023-43919-9>. **Scientific Reports. (Impact Factor- 4.6)**
6. **M.VishnuPriyan**, R. Annadurai and Kennedy C. Onyelowe, and Nakkeeran Ganasen "Review on Electronic Waste Used as Construction Materials - A Scientometric Analysis" <https://doi.org/10.1080/23311916.2023.2283307>. **Cogent Engineering (Impact Factor- 1.9)**
7. **M.VishnuPriyan**, R. Annadurai, George Uwadiogwu, Durga Prasad Ravella Pradeepkumar Sugumar, and Bamidele Charles Olaiya "A study on waste PCB fibers reinforced concrete with and without silica fume made from electronic waste" <https://doi.org/10.1038/s41598-023-50312-z>. **Scientific Reports. (Impact Factor- 4.6)**
8. **M.VishnuPriyan** and R. Annadurai, "Mechanical Characteristic Study of Waste Printed Circuit Board Reinforced Concrete with Silica Fume and Validation using ANN", <https://doi.org/10.1007/s11356-024-33099-y>. **Environmental Science and Pollution Research (Impact Factor- 5.8)**
9. Kennedy C. Onyelowe, Arif Ali Baig Moghal, Ahmed Ebid, Shadi Hanandeh, Ateekh Ur Rehman, **M. Vishnu Priyan**, "Estimating the strength of soil stabilized with cement and lime at optimal compaction using ensemble-based multiple machine learning." <https://doi.org/10.1038/s41598-024-66295-4>. **Scientific Reports. (Impact Factor- 4.6)**

National Journal: --

International Conferences:

1. VishnuPriyan Mari Muthu and A Ramasamy, "Experimental Investigation on the Mechanical Properties of Printed Circuit Board (PCBs) Fibre Reinforced Concrete", "International e-Conference on Novel Innovations and Sustainable Development in Civil Engineering 2022 conference organized by Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology (Chennai) held from 31st March and 1st April 2022. .PP 56-58
2. M.VishnuPriyan and A Ramasamy, "A Study on the Mechanical Properties of the Brick with PCB Powder", "international conference on civil engineering innovative development in engineering advances organized by SRM Institute of Science and Technology (Chennai) held from 9th March and 11th March 2023.

National Conferences

