

Dr.D.Zealakshmi

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Associate Professor & Head
Department of Civil Engineering
Er.Perumal Manimekalai Engineering college,
Puducherry, India

https://scholar.google.com/citations?user=CWvC_n8AAAAAJ&hl=en&authuser=2

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<https://www.researchgate.net/profile/Dzealakshmi-Murthy>

<https://vidwan.inflibnet.ac.in/profile/368369>

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**CAREER OBJECTIVE**

To achieve challenging career and to contribute effectively for the growth of students & Organization.

ACADEMIC PROFILE**Pondicherry University (Central University)****Ph.D, Civil Engineering (High strength over-reinforced concrete), 2019.**

Thesis Title: A Study Of Confined Hybrid Fibre Reinforced High Strength Concrete Beam In The Mid-Span Region.

M.Tech, Environmental Engineering, 2008

Thesis Title: Experimental Analysis of Biotransformation Routes for Surfactants to BioEnergy Residues (USEPA & OECD Regulations)

B. Tech, Civil Engineering, 2001

Thesis Title: Architectural design of multistory building using AutoCAD & 3D Studiomax.

ACADEMIC EXPERIENCE**Er. Perumal Manimekalai Engineering College, Hosur, Tamilnadu.**

- Associate Professor & Head, Dept of Civil Engineering, [December 2021- 6th JUNE 2023]

Christ College of Engineering & Technology, Puducherry.

- Professor & Head, Dept of Civil Engineering, [June 2019 – September 2021].
- Associate Professor & Head, Dept of Civil Engineering, [June 2016 – 2019].
- Senior Assistant Professor & Head, Dept of Civil Engineering, [June 2012 – 2016].
- Assistant professor, Dept of Civil Engineering, [June 2008 – 2012].

ADMINISTRATIVE RESPONSIBILITIES

@ Er. Perumal Manimekalai Engineering college:

- Head of Department at Er. Perumal Manimekalai Engineering college Since December 2nd 2021 till June 06-2023.
- Environmental Audit Incharge for the college campus at PMCTECH, Hosur.
- Invited to give Guest Lecture on the topic of Building information modelling at Polytechnic college, PMCTECH, Hosur.
- Organized **1 week Add-on courses in Revit Architecture** for the III year students and **staadpro** software (IV year students) for their carrier development.
- Arranged more than 30 Guest lectures & seminars on different fields from various places in last academic year.
- Hands-on workshop in Total station from Govt sector, Ready mix concrete(feildsetup) from UltraTech cement to the student to inculcate the technical knowledge.
- Organized one week internship program for the prefinal year and final year students at *Gia mantra Sustainable village @Thiruvannamalai.*
- Organized industrial visit for the final year and prefinal year students for the nearby places in Hosur and Bangalore.
- Published a **patent on” Behaviour of steel plates strengthened deep beams with duct openings.**
- **Published an international journal in Materials Today: Proceedings in Elsevier.** “A comprative flexural performance of an over-reinforced high strength concrete beam with normal strength beam”
- Recently arranged surveying with Drone for the prefinal year and final year students.
- Organized Technical symposium(Intercollegiate) and National conference for students

CONSULTANCY WORK- *Compressive Strength of Cube & Hollow Blocks*

1.COMPANY: TEXMACO RAIL ENGINEERINGLTD,
CHANDAPURA, BANGALORE, KARNATAKA.

2.COMPANY:R.K.BUILDERS,COMMERCIALBUILDING
CONSTRUCTION,HOSUR,TAMILNADU.

@ Christ College Of Engineering &Technology:

- Examination coordinator- Internal and university (CCET)

- Assigned as a *Chief Examiner In Pondicherry university* valuation board for the department civil engineering of Pondicherry affiliated colleges.
- 14 years' experience in Teaching and Academic Schedule.
- Head of Department since 2012.
- Answer key preparation for the Pondicherry university valuation board.
- Coarse work paper correction for PhD students & question paper setting for postgraduate students.
- Coordinator, Internal auditor, Quality management system- ISO 9001 : 2015 (CCET).
- Committee Head of Department library books purchase.
- Coordinator-Workload allocation & Timetable preparation for entire department since 2012(9years).
- Coordinator - Continuous Assessment test and university practical examinations.
- Sound knowledge in preparing Laboratory quotation & development.
- Students counseling and mentoring since 2008.
- Knowledge in syllabus modification for B.Tech Civil Engineering (*Board Of Studies Member) at Pondicherry university*).
- Experience in playing an effective role in organizing the department events such as Workshops, Guest lecture, Software Training Programs, Industrial Visits, etc.
- Worked as a Coordinator for National board of Accreditation (NBA), National Assessment and Accreditation council (NAAC) .
- As a *Board member for the Department of Civil engineering in Pondicherry University*.

INDUSTRIAL EXPERIENCE

1) GIS Data Analyst: 2002 – 2003, Aurofuture, Auroville, Pondicherry.

- Data collection on the entire Auroville communities.
- Data storage on ArcView GIS software, using mapping tools.
- Analyzing the data's stored (Data retrieving).
- Designing interiors & exteriors of *Auroville matrimandhir (Globe plating)*

2) CADD Engineer: 2003 -2006, MEDIA CADD &GrafX, Puducherry.

- Worked as a trainer for the students in AutoCadd, Architectural desktop, walk-through in 3D studiomax. Given live demo for the Engineering students.
- Handled internship training for the Diploma students.
- Designed commercial building, (Apartments & jewelry shop) 2d plans, interiors & 3D models.

- Had given demo class for the Assistant Engineers & Junior Engineers in **Neyveli lignite corporation (NLC)** for mapping Software (ArcView GIS).

SUBJECTS HANDLED

- Fluid mechanics & Fluid Machinery
- Engineering Mechanics & Basic Civil Engineering (I year)
- Concrete Technology
- Hydrology and water resources Engineering
- Air and Noise pollution,
- Strength of materials (Mechanical & Civil)
- Reinforced cement concrete design.
- Air & Noise pollution.
- Disaster management
- Environment and Agriculture
- Green building Design
- Water supply and waste water Engineering
- Geotechnical Engineering

LABORATORY HANDLED

- Fluid Mechanics & hydraulic machinery lab
- Strength of materials & Material testing lab (Concrete lab)
- Environmental Engineering
- Estimation, Evaluation and costing Lab
- Computer aided design drafting & STADD PRO lab

BOOKS PUBLISHED

- Published Basic Civil Engineering Book – First year B.Tech.(Agam publishers : 2013)
- Published **A text Book of Geotechnical Engineering** on (Jan 2023) with Academic Guru Publishing House. ISBN 978-81-960902-0-3. Link: <https://amzn.eu/d/3LitgRM>

ACHIEVEMENTS

- Acted as a jury for a paper presentation in National Workshop @PMCTECH Polytechnic College.
- Delivered guest lecture in the topic of “Building Information Modeling” Polytechnic

PMCTECH, Hosur.

- Received appreciation letter from NPTEL, for the online course coordination for the students.
- Projects undertaken for the research scholars (PWD department) in Neural Network.
- Organized one day Funded workshop for the students of Dept of civil Engineering from Institution of Engineers (Pondicherry chapter)
- Organized a technical work shop cum hands on experience “**CIVIA TELIER**” in laboratory practices (Intercollege) on March 13th 2020 at Christ College of engineering & technology.
- Recently Organized a three days webinar by overseas Industrialist (vast experienced in different field) at Christ college of engineering & technology, Pondicherry (Aug 20th to 24th2020).
- Received certificate of appreciation for actively guided students for design competition **World space week-2020** organized by ISRO, Govt of India on 09.10.2020
- Recently started YouTube channel named “**STRUCTURAL SOLUTIONS**”- for problematic papers (RCC & Engineering mechanics).

Lecture *on Spheroidal Weathering And Factors Affecting Weathering of Rocks*

Link: <https://youtu.be/7lhd4U6MjtQ>.

LIST OF INTERNATIONAL JOURNALS PUBLISHED:

1. Zealakshmi, D., Ravichandran, A., and Kothandaraman, S., “Computer Aided High Strength Concrete Mixture Proportion Using Mat Lab”, International journal of computer applications, Vol. 70 (8), May **2013**, pp., ISSN NO: 0975-8887.
https://www.researchgate.net/profile/S-Kothandaraman/publication/271070248_Computer_Aided_High_Strength_Concrete_Mixture_Proportion_using_Mat_Lab/links/5a9d753d45851586a2aff108/Computer-Aided-High-Strength-Concrete-Mixture-Proportion-using-Mat-Lab.pdf
2. Zealakshmi, D., Ravichandran, A., and Kothandaraman, S., “Strength Modeling Of High Concrete with Micro Reinforcement”, International Journal of Mechanical & Civil Engineering Research, Vol. 5 (2), **2014**,pp , ISSN NO: 2278-3652.
3. Zealakshmi, D., Ravichandran, A., and Kothandaraman, S., “Strength Modeling of High strength Concrete”, International Journal of Civil Engineering Research, Vol. 11 (3), June **2014**, pp. , ISSN NO 2278-1684.(**Scopus Indexed**)
<https://www.iosrjournals.org/iosr-jmce/papers/vol11-issue3/Version-7/K011375761.pdf>
4. Zealakshmi, D., Ravichandran, A., and Kothandaraman, S., “Study Of Confined Hybrid

Fibre Reinforced High Strength Over Reinforced Concrete”, International Journal of Applied Engineering Research, Vol 10 (19), **2015**, pp. , ISSN NO: 0973-4562. (Annexure-II) (**Scopus Indexed**)

https://www.researchgate.net/publication/355788266_Study_of_confined_hybrid_fibre_reinforced_high_strength_concrete_beam_in_the_span_moment_region

5. Zealakshmi, D., Ravichandran, A., and Kothandaraman, S., “Flexural Behavior of Confined Hybrid Fibre in the Plastic Hinging Region of the High Strength Concrete Beams”, **Indian Journal of Science & Technology**, Vol 9 (9), **2016**, pp. 1-5, ISSN NO:0974-6846.(**Thomson Reuters**)

<https://indjst.org/articles/flexural-behavior-of-confined-hybrid-fibre-in-the-plastic-hinging-region-of-the-high-strength-concrete-beams>

6. Zealakshmi, D., Ravichandran, A., and Kothandaraman, S., (**2016**), “Prediction of Flexural performance of Confined Hybrid Fibre Reinforced High Strength Concrete Beam by Artificial Neural Networks”, Indian Journal of Science & Technology, Vol.9 (32), ISSN: Online: 0974-5645, ISSN:Print 0974-6846.(**Thomson Reuters**).

<https://indjst.org/articles/prediction-of-flexural-performance-of-confined-hybrid-fibre-reinforced-high-strength-concrete-beam-by-artificial-neural-networks>

7. Zealakshmi, D., Ravichandran, A., and Kothandaraman, S., (**2016**), “Ductile Behavior of Confined Hybrid Fibre Reinforced Concrete in the Plastic Hinging Zone of High Strength Concrete Beams”, Journal of chemical and Pharmaceutical Sciences, ISSN: 0974-211, Special Issue 2. (**Scopus Indexed**).

<https://jchps.com/specialissues/2016%20Special%20Issue%202/jchps%2019%20Zealakshmi%2093-96.pdf>

8. **Zealakshmi, D & Vijaya . B., (2022)** “A comparative flexural performance of an over-reinforced high strength concrete beam with normal strength beam” **Materials Today: Proceedings in Elsevier (Scopus Indexed)**.

<https://www.sciencedirect.com/science/article/abs/pii/S2214785322048027?via%3Dihub>

INTERNATIONAL CONFERENCES- PAPERS PUBLISHED
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NAME OF THE PROGRAMME	TITLE OF THE PROGRAMME / PAPER PRESENTED	VENUE	YEAR

International Conference on Advanced Engineering and Technology for Sustainable Development	Study Of Confined Hybrid Fibre Reinforced High Strength Over Reinforced Concrete.	Karpagam College of Engineering and Technology, Coimbatore. India	2015
ICCMEET 2016	Ductile Behavior Of Confined Hybrid Fibre Reinforced Concrete In The Plastic Hinging Zone Of High Strength Concrete Beams.	SVS college of Engineering and Technology, Coimbatore, India.	2016
International Conference on Sustainable Energy and Built Environment	An Artificial Neural Network Modeling For Flexural Evaluation of Confined Hybrid Fibre Reinforced High Strength Concrete Beam”,	Vellore Institute of Technology (VIT), Vellore, India.	2016
5 th International conference on Advanced materials and modern manufacturing ICAMMM 2022	“A comparative flexural performance of an over-reinforced high strength concrete beam with normal strength beam”	Adhi college of Engineering and Technology, Kanchipuram, India	March 2022
National Level virtual conference –“Emerging Trends in Civil Engineering”	Study on the behavior of pile in layered soil under lateral loading.	Dr.M.G.R Educational and Research Institute.	May 2022
National conference on Recent Trends and Innovations in Civil Engineering, NC-RTICE’22	Experimental study on bamboo Fibre reinforced concrete	Kings college of Engineering, Thanjavur Pudukkottai	June 2022

PERSONAL TRAITS & HOBBIES

- Hardworking and determined
- Optimistic attitude
- Good dedication and management in work

- Good communication skill
- Paper Craft work
- Flower decoration
- Listening music
- Gardening & Making light weight flower pots.

SOFTWARE PROFICIENCY

- Ms office
- Auto desk auto Cadd
- Architectural Cadd & 3d studio max
- ArcView GIS – mapping
- Staad pro, Matlab & Neural Network

MEMBERSHIP

- INDIAN SOCIETY OF TECHNICAL EDUCATION(ISTE)

PERSONAL INFORMATION

- **Phone** : 8056375521
- **E-mail** : dr.zealakshmihodcivil@gmail.com
- **Date of Birth** : 27th Sept 1979
- **Gender** : Female
- **Marital Status** : Married
- **Religion** : Hindu
- **Nationality** : Indian
- **Languages Known** : English, Tamil, and Telugu.

DECLARATION

I hereby declare that all the above furnished details are true to the best of my knowledge.

(D.ZEALAKSHMI)