

CURRICULUM VITAE

Dr.PADMANABAN.I, B.E(NIT), M.TECH (ACT), MISTE, PhD

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RESEARCH INTERESTS

Construction Materials, Concrete Technology, Construction Management,

TEACHING & RESEARCH EXPERIENCE

- Currently working as **Professor and Head** of Civil Engineering Department at National Engineering College, Kovilpatti, from May 2024 to till date
- **Professor and Head** of Civil Engineering Department at Sri Krishna College of Technology from October 2015 to till April 2024 (9 yrs)
- **Professor and Head** of Civil Engineering Department at Jansons Institute of Technology from December 2010 to October 2015(5 years)
- Worked as **Senior Lecturer** in Civil Engineering Department at V.L.B Janakiammal College of Engineering and Technology(from July 2007 to December 2010, (3years)
- Worked as **Lecturer** in Civil Engineering Department at Kumaraguru College of Technology, Coimbatore (from May 2006 to June 2007 for a period of 1 year)
- **Teaching Research Associate** in Govt. Engg. College, Salem from April 2002 to April 2006 (acquired teaching and research experience for a period of 4 years)
- Experience in Developing High Volume Fly ash Concrete Mix Design of High Performance Characteristics
- Testing and consultancy experience in Soil Engineering and concrete mix design
- Introduced First of its kind Experiential Learning in Civil Curriculum starting from first year
- Established Industry Supported Laboratories
 - FOSROC chemicals supported Concrete and Highway Laboratory,
 - Tatva (solid waste management industry) supported Environmental Laboratory
 - Tex Pump Industry Supported Fluid Mechanics Laboratory
 - VLANDS Centre of Excellence Computational Laboratory
- MOU collaboration with 12 of established construction Industries
- One of the Coordinator for NAAC, NBA, NIRF, Autonomous activities
- Established 3 Special Labs 1)Advanced Material Composite Research Lab 2) Environmental Biotechnology Research Lab 3) Hazardous waste Research Lab (DST supported)

RESEARCH PUBLICATIONS

No of Phd Students Guiding	4(2 submitted synopsis)
No of Phd Scholars produced	2
No of PG Projected Guided	22
No of UG Projects Guided	54 batches

Sl No.	Title of Paper/ Report / Book	Author(s)	Name. Vol. And Number of Journal, and Year of Publication	Page No From To
1	High performance concrete –for Concrete Pavements	Padmanaban. I S.Kandasamy	IRC –Convention -169 th Mid Term Council Meeting 2003) held at Pondicherry	85-95
2	High Performance Concrete- An Indian Scenario	Padmanaban. I S.Kandasamy	International Conference on Recent Trends in Concrete Technology and Structures (INCONTEST 2003)	Abs in Souvenir
3	Experimental Studies on HPC- A State of Art –Review	Padmanaban. I S.Kandasamy	ICFRC, International Conference on Fibre composites, High Performance concretes and Smart Materials On 8-10 Jan 2004	849-858
4	Experimental Studies on Flyash Concrete (HVFAC)	Padmanaban. I S.Kandasamy	International Conference on Advances in Concrete Composites and Structures (ICACS-2005), SERC, Chennai	105-112
5	Durability Studies on High Performance concrete (HPC) – a state of art review	S.Kandasamy Padmanaban. I Nithya. G	REDEMAT – 2004 Department of Civil Engineering, National Institute of Technology, Calicut REC	133-136
6	Strength studies on High Performance Concrete (HPC) – a state of art review	S.Kandasamy Padmanaban. I T.Parthasarathy	REDEMAT – 2004 Department of Civil Engineering, National Institute of Technology, Calicut REC	137-140
7	Fracture Mechanics in High Performance Concrete – a state of art review	S.Kandasamy Padmanaban. I K. Vidhya	REDEMAT – 2004 Department of Civil Engineering, National Institute of Technology, Calicut REC	141-148
8	Study on concrete Pavement- State of the Art Review	S.Kandasamy Padmanaban. I K. Vidhya	NPPCES2005 Dept of Civil Engg Coimbatore Institute of Technology Coimbatore-641014	251-258
9	Study on Fracture Properties of Flyash Concrete Beams	S.Kandasamy Padmanaban. I K. Vidhya	International Congress Flyash India 2005	63
10	Impact Studies on High Volume Flyash Concrete	S.Kandasamy Padmanaban. I Baskar R	NPPCES2005 Dept of Civil Engg Coimbatore Institute of Technology	45-48

			Coimbatore-641014	
11	Durability Studies on Flyash Concrete	S.Kandasamy Padmanaban. I	NPPCES2005 Dept of Civil Engg Coimbatore Institute of Technology Coimbatore-641014	51-57
12	Effect of compressive strength on impact energy for fly ash concrete	Padmanaban. I S.Kandasamy	Journal of structural Engineering Vol. 38, No. 2, June - July 2011	109–116
13	Durability properties of fibrillated polypropylene fibre reinforced high performance concrete	Padmanaban. I D.Maruthachalam	Journal of Structural Engineering Vol. 38, No. 1, April - May 2011	1–9
14	Statistical Modeling of High and Low Volume of Fly Ash High Compressive Strength Concrete	Padmanaban. I S.Kandasamy	International Journal of Applied Engineering Research Volume 4 Number 7 (2009)	1161–1167
15	Influence of Polyolefin Macro-Monofilament Fibre on Mechanical Properties of High Performance Concrete	Padmanaban. I D.Maruthachalam	KSCE Journal of Civil Engineering (2013) 17(7):2013 Korean Society of Civil Engineers	1682-1689
16	Effect of compressive strength on abrasion resistance for fly ash concrete	Padmanaban. I D.Maruthachalam	Ecological. Environmental & Construction Journal . 20 (1) : 2014;	217-222
17	Experimental study on Strengthening of RC Column by FRP Wire mesh	Eldho John, I Padmanaban	International journal of modern trends in Engineering and Science , Vol 3, No7 2016	212-216,
20	Strength studies on special concrete beams using Bottom ash as partial replacement of fine aggregate	Manikandan , I Padmanaban	International journal of modern trends in Engineering and Science , , Vol 3, No8 2016	192-195
21	Experimental Investigation on graphene oxide composites with ASH concrete	Nandihini Padmanaban. I	International Journal of Earth science and Engineering, Vol 9, 3 June 2016	515-519
22	Experimental study on Magnesium Silicate Hydrate Cement Blended with Partial replacement of GGBS	Sathyanathan V Padmanaban. I	International Journal of Earth science and Engineering, Vol 9, 3 June 2016	534-537
23	Study On Mechanical Properties Of Low Density Concrete With Partial Replacement Of Coarse Aggregate	Dinesh Padmanaban. I	International Journal of Earth Science and Engineering, june 2016,	471-475
24	An Experimental Investigation on High Volume Fly Ash Concrete by Replacing Fine Aggregate using Bottom Ash	Deepak Priya Kumaran Padmanaban. I	Journal of ChemTech Research Vol.10 No.8, 2017.	110-118

25	Effect of Steel Fibres as Reinforcement in Self Compacting Concrete	T Sathya Padmanaban. I	International Journal of Advanced Research Methodology in Engineering & Technology, Volume 1, Issue 2, March 2017,	
26	Experimental Study on Polypropylene Fiber Reinforced Self Compacting Concrete	Najilah Farouk Padmanaban. I	International Journal of ChemTech Research Vol.10 No.14, 2017	345-352,
27	An Experimental Investigation on High Volume Fly Ash Concrete by Replacing Fine Aggregate using Bottom Ash	Padmanaban. I	Journal of ChemTech Research, 2017.	110-118
28	A case study on necessity of retrofitting the existing structure against seismic force	Padmanaban. I	International journal for research in applied science & engineering Technology,2017	1005-1009
29	Effect of Steel Fibres as Reinforcement in Self Compacting Concrete	Padmanaban. I	International journal of advanced research methodology in Engineering & Technology,2017	1(2), 170-174
30	Experimental Studies of Coconut Shell Ash Composites in Concrete	Padmanaban. I	International Journal of Latest Engineering and Management Research,2018	2(3) 23-25
31	Sub grade modification using natural coir fibres	Padmanaban. I	International Journal of Latest Engineering and Management Research,2018	2(3) 6-13
32	Experimental Study on Frames for Seismic Performance Assessment	Padmanaban. I	International Journal of Latest Engineering and Management Research,2018	2(3) 26-30
33	Experimental study on low cost concrete using waste foundry sand and m-sand	Padmanaban. I	International Journal of Latest Engineering and Management Research,2018	2(3) 19-26
34	Characteristic Study of Cement Mortar by Addition of Natural Resin	Padmanaban. I	International Journal of Latest Engineering and Management Research,2018	2(3) 8-12
35	Strength Studies on Recycled Aggregate Concrete with Partial Replacement of Cement by Using Flyash	Padmanaban. I	International Journal of Latest Engineering and Management Research,2018	2(3) 72-74
36	Stabilization of black cotton soil by using ground granulated blast furnace slag and steel slag	Padmanaban. I	International Journal of Latest Engineering and Management Research,2018	2(3) 36-39
37	Trial Examination of synthetic polymer as shear reinforcement	Padmanaban. I	International journal of Innovative technology and exploring Engineering,2019	9(2),481-486
38	Experimental check on physical and mechanical properties of saw blocks	Padmanaban. I	International journal of Innovative technology and exploring Engineering,2020	9(4),658-663
39	Experimental studies on interlocking block as wall panels	Padmanaban. I	Materials Today: Proceedings,2020	21,1-6
40	Replacement of fine aggregate by using construction demolition waste steel powder in concrete	Padmanaban. I	Materials Today: Proceedings,2020	26 Pages: 1551-1556

CONTRIBUTION TO THE DEPARTMENT

- Got the Department accredited under NBA for two Cycles
- Convener for the **International conference on Frontline areas of Civil Engineering. 5-6 Jan 2018** at Sri Krishna college of Technology sponsored by AICTE
- Convener for the **Industrial Aspects of Cold Formed Steel Structures ", April 6, 2017.** sponsored by CSIR
- Motivated our Civil Engineering Students to be a finalist(Fourth Place) in Swatchthon1 organised by AICTE
- Motivated our Civil Engineering Students to be a finalist in Smart India Hackathon 2018
- Motivated our Civil Engineering faculty to obtain research funding under DST **SERB, DRDO,MOES,CSIR, ICMR to a tune of 35 lakhs**
- Coordinated the Testing and consultancy activities to tune of 14 lakhs
- Co-ordinator for **Faculty Development Programme on "CE2302 Structural Analysis –I" from 11th to 17 June 2013** at Jansons Institute of Technology
- Convener for the **National conference NCONET'14 for Civil Engineering Department** at Jansons Institute of Technology
- Convener for the **National conference NCONET'13 for Civil Engineering Department** at Jansons Institute of Technology
- Co-Coordinator for **Faculty Development Programme on "Remote Sensing Techniques and Applications" 12th – 24th Novemeber 2007** at V.L.B Janakiammal College of Engineering and Technology
- Organized **National Level Technical Symposium "Edificio" for 3 years** at Jansons Institute of Technology
- Organized **National Level Technical Symposium "Landmark" for 3 years** at V.L.B Janakiammal College of Engineering and Technology
- Organised 5 one day Workshops on various fields of civil Engineering at Jansons Institute of Technology
- **Treasurer of the International Conference "ICAMAT- 2010" and active member of the organizing committee** at V.L.B Janakiammal College of Engineering and Technology
- Staff Advisor of Civil Engineering Association in VLBJCET from 2007 to 2010 and arranged several special lectures to civil engineering students

SHORT TERM COURSES ATTENDED

- **Advances in Construction Materials Technology at IIT Madras**
12-17 July 2004
- **Modern Trends in Pavement and Traffic Engineering at IIT Kanpur**
28-31 March 2004
- **Software Applications in Civil Engineering at KCT Coimbatore**
05-11May 2008
- **Faculty Development Programme at VLBJCET, Coimbatore**
08-12 December 2008
- **National Programme on Technology Enhanced Learning at IIT Madras**
05-09 April 2010
- **International workshop on 3D Printing, Robotics in Construction Industry Mysore**

FUNDS RECEIVED

Sl. No.	Funding Agency	Programme Details	Funding amount
1	Anna University	Faculty Development Programme on “CE2302 Structural Analysis –I” from 11 th to 17 June 2013	Rs 80,000
2	DRDO	One Day Workshop “Tsunami and the Protection Measures”	Rs 30000
3	Ministry of Earth Science , New Delhi	One Day National Workshop on “Application of Finite Element Method in Earthquake Engineering	Rs 30,000
4	Anna University	Faculty Development Programme “Remote Sensing Techniques and Applications” 12 th – 24 th Novemeber 2007	Rs 25000

INNOVATIVE EFFORTS IN TEACHING LEARNING PROCESS INTRODUCED

Experiential learning
Project Based learning
Virtual laboratory classes
Gamification
Project evaluation by industrial experts
Mooc/Nptel certification courses
Role play
Patents
Students special research groups
Appreciation to best performers Classwise & Monthwise
Model creative learning
Value added courses on latest trends
Need based workshops
Teaching human values through motivational videos

CERTIFICATE OF APPRECIATION

- 100% Pass Percentage in Anna University Examination Dec 2007 & Dec 2008 for the subject Building Services
- 100% Pass Percentage in Anna University Examination Dec 2008 for the subject Advanced construction Technology
- **Dr. APJ Abdul Kalam Teaching Excellence award , Marina Labs, Chennai, 2017**
- **The Best faculty of Civil Engineering under Senior Category by Nehru Group of Institutions.**
- **HOD of the Year 2020 awarded by InSc (Institute of Scholars)**
- **Education Hero Award 2023 by EGN India**

ACADEMIC PROFILE

Ph.D

Research Area “Experimental Studies on flyash Concrete”
Publications in International Conference- 4
Publication in National Conference 12
Publication in Journals 32

M.Tech. (Advanced Construction Technology)

CGPA : 7.56 (First Class)
Course Period : 2000 –2001
Insitution : Pondicherry Engineering College, Pondicherry
University : Pondicherry University

B.E., (Civil Engineering)

Aggregate : 78.56% (First Class with Distinction)
Course Period : 1995 – 1999
Insitution : **Regional Engineering College, Bhopal(REC- Bhopal Presently NIT-Bhopal)**
University : Bharakatullah University, Bhopal

Higher Secondary

Percentage : 89.5%
Year of Completion : 1995
School : Fatima Higher Secondary School
Board : Tamilnadu Educational Board, Chennai.

Secondary

Percentage : 78.00%
Year of Completion :1993
School : Fatima Higher Secondary School
Board : Tamilnadu Educational Board, Chennai.

PROJECT WORK

M.Tech., : Impact Studies on Polymeric Mesh Reinforced Panels (Dissertation)
: Studies on Fibre Reinforce Concrete (Mini Project)

B.E., : Experimental Studies to find the Safe Bearing Capacity of the Soil for a Building

SUBJECTS TAUGHT**U.G.**

1. Concrete Technology
2. Soil Mechanics
3. Construction Planning Management
4. Engineering Mechanics.
5. Strength of Materials
6. Construction Techniques & Equipments
7. Estimation and Costing Engineering
8. Pavement Engineering
9. Building Services
10. Managements Concepts for Civil Engineers.

P.G.

1. Maintenance, Repair Rehabilitation of Structures
2. Advanced Concrete Technology

3. Advanced Construction Technology
4. Experimental Techniques and Instrumentation

LABORATORIES HANDLED AND ESTABLISHED

1. Strength of Materials Lab
2. Survey Lab
3. Soil Mechanics Lab
4. Fluid Mechanics and Machinery Lab
5. Concrete and Highway Lab

FIELD OF INTEREST

- Concrete Technology
- Construction Management
- Construction Materials

COMPUTER PROFICIENCY

Languages : C
Packages : M.S OFFICE, AutoCad 2000, Ansys, STAAD.PRO
O.S : WINDOWS XP,

Membership in Professional Societies:

- Life member in ISTE (LM 50181)
- Member in International Association of Engineers(371064)

EXTRA CIRICULAR ACTIVITES

Player : Badminton

PERSONAL PROFILE

Qualification : PhD, M.Tech.,(Advanced Construction Technology), B.E
Date of Birth : Jan 9, 1978
Sex : Male.
Father's Name : Mr. R. Ilangovan.
Father's Occupation : Assistant Engineer in Fisheries, Govt of Pondicherry
Nationality : Indian.
Languages Known : English, Tamil, French, Hindi

(Dr. I.Padmanaban)