

## **Faculty Profile**

(Provide the information for last five years from 2020-21 to 2024-25)

1. Name of the faculty : Dr.MANIKANDAN.P
2. Name of the Department : CIVIL ENGINEERING
3. Present position held : ASSOCIATE PROFESSOR
4. Educational qualifications : M.Tech.,PhD

(Degree onwards)

Degrees	Class/ Grade	University/ Institution	Stream Regular/ Distance	Year of award
UG Degree	FIRST	Periyar maniammai university	Regular	2012
PG Degree	FIRST	SRM university	Regular	2014
PhD	FIRST	Periyar maniammai university	Regular	2019
Other/s				

5. E-mail and contact number : drmanikandanphd@gmail.com
6. Date of Joining the Institute : 03/03/2025
7. Total teaching experience : (Mention in Reverse chronological order)

Year		Designation	Dr. AIT/Other Institutions	Academic-Administrative Responsibility held
From	To			
March 2022	Till	Associate Professor	Dr.AIT, Bengaluru	
Dec 2022	Feb 2025	Associate Professor	PMIST,Thanjavur	
Nov 2018	Nov 2022	Associate Professor	FTVETI, Ethiopia	
Dec 2017	June 2018	Assistant Professor	Bharat Institute of Engineering and Technology Hyderabad	
Sep 2014	July 2017	Half Time Teaching Assist (HTTA)	Periyar Maniammai University (Deemed), Thanjavur	

8. Courses taught :

**Post graduate level**

- Modern Construction Materials and Laboratory
- Advanced construction materials and Techniques
- Structural analysis and design
- RCC design
- Construction Project Management
- Procurement and Contract Management
- Quality Specification and Standards
- Statistics for Construction

**Under graduate level (Civil Engineering)**

- Solid mechanics
- Advanced concrete technology
- Structural analysis and Design
- Solid waste management
- Design and Drawing 1 (Irrigation Engineering)
- Structural Testing Laboratory

9. Specialization : Structural Engineering

10. Research experience : 10 years

11. Major research projects completed: Title of the project, Date of sanction and Duration, Grant received, Funding agency. PI or Co-PI.

Academic Year	Major Project Title	Date of Sanction	Funding agency	Duration	Sanctioned Amount	Grant Received	PI or Co-PI
2024-25							
2023-24							
2022-23							
2021-22							
2020-21							

12. Minor research projects completed: Title of the project, Date of sanction and Duration, Grant received, Funding agency. PI or Co-PI.

Academic Year	Minor Project Title	Date of Sanction	Funding agency	Duration	Sanctioned Amount	Grant Received	PI or Co-PI
2024-25							

2023-24							
2022-23							
2021-22							
2020-21							

### 13. Guidance / Supervision

- i) Number of students awarded Ph.D. degree: Name of the student, topic of research, date of registration, Research Centre/University, date of declaration of Ph.D. degree.

Sl. No	USN No.	Student Name	Research Topic	Date of Registration	Research Centre/University	Date of Declaration of PhD

- ii) Number of students awarded MSc.( Engg) by Research: Name of the student, topic of research, date of registration, Research Centre/University, date of declaration of MSc ( Engg). degree.

Sl. No	USN No.	Student Name	Research Topic	Date of Registration	Research Centre/University	Date of Declaration of MSc( Engg)

- iii) Number of students registered for Ph.D. degree: Name of the student, topic of research, Research Centre/University, date of registration.

Sl. No	USN No.	Student Name	Research Topic	Date of Registration	Research Centre/University	Status

14. Participation in conferences, symposia, seminars and workshops: International, national, state or university level, attended. Presented paper, chaired session. Resource person.

International Conference			
Academic Year	Title of the Conference	Venue and Date of Conference	Attended/Presented paper/ Chaired Session/ Resource Person
2020-21			
2019-20			

2018-19			
2017-18			
2016-17			
National Conference			
Academic Year	Title of the Conference	Venue and Date of Conference	Attended/Presented paper/ Chaired Session/ Resource Person
2024-25			
2023-24			
2022-23			
2021-22			
2020-21			

Symposia/ Seminars/ Workshops						
Sl.No	Academic Year	Title	Symposia/ Seminars/ Workshops	Venue and Date	Inter national/ National/ State/ University Level	Attended/ Presented
1.	2024-25					
2.	2023-24					
3.	2022-23					
4.	2021-22					
5.	2020-21					

15. Innovative processes developed in teaching and learning:

16. Participation in curricular development:

17. Participation in co-curricular and extra-curricular activities:

18. Examination /Evaluation reforms initiated:

19. Publication of research papers: in peer reviewed journals, non-peer reviewed journals, conference proceedings, impact factors, citations, h-index. Numbers in SCOPUS.

Journal Publication						
Academic Year	Research Paper Title	Journal Name	Date of Publication/P age Numbers	Impact Factor/h-index/Number in SCOPUS	peer reviewed/ non-peer reviewed	National / International
2024-25	Performance Evaluation Of Co2 Reduction In Green Materials	Measurement: Energy	Volume 7, September 2025	5.6	Peer reviewed	Internati onal
2023-24	Study on Behavior of Sustainable Green	Introduction to functional Nano materials	12-08-2024	0.6	Peer reviewed	Internati onal

	Building Materials in Conoidal Shell Structure					
2022-23	Tailoring Properties of nano – crystalline CdO thin filters by incorporation of AI for enhanced Photo – voltaic applications	Materials Today	Volume 74, Part 4, 2023, Pages 923-933		Peer reviewed	International
2021-22						
2020-21						
<b>Conference Proceedings</b>						
<b>Academic Year</b>	<b>Research Paper Title</b>	<b>Conference Name</b>	<b>Venue</b>	<b>Date of Publication/Page Numbers</b>	<b>Impact Factor/h-index/Number in SCOPUS</b>	<b>National/International</b>
2024-25						
2023-24						
2022-23						
2021-22						
2020-21						

20. Books published: with ISBN No., Without ISBN No., Chapters in books.

<b>Academic Year</b>	<b>Title</b>	<b>Date of Publication/Page Numbers</b>	<b>ISBN Number</b>	<b>Book/Book Chapter</b>
2024-25				
2023-24	Sustainable Development of Advanced Materials In Physics	18/02/2024	ISBN:9789357629904	5 chapters
2022-23				
2021-22				
2020-21				

21. Patents Applied/Granted: National. International, commercialized:

Academic Year	Patent Number & Date of filing	Title	National /International	Published Date	Grant Date
2024-25					
2023-24					
2022-23					
2021-22	202141049865	Design Of Concrete Curing Box In Building Construction Application	National	30/10/2021	
2020-21	2020104076	Method for Predicting the Remaining Life Time of a Bridge	International	14 December 2020	

22. Consultancy services provided and revenue generated:

Academic Year	Title of the project	Name of the Principal Investigator	Date of sanction & Amount	Sponsoring Agency	Status	Remarks
2024-25						
2023-24						
2022-23						
2021-22						
2020-21						

23. Conferences, seminars, symposia and workshops organized/Attended:

i) Organised

Academic Year	Title of the workshop/FDP /Conference	Name of the Coordinator/s	Date	Sponsoring Agency	No. of participants
2024-25					
2023-24					
2022-23					
2021-22					
2020-21					

ii) Attended- **Conference/ seminars/ symposia/workshops**

<b>Sl. No</b>	<b>Academic Year</b>	<b>Title</b>	<b>Type</b> (National/International-Workshop/FDP/Seminar)	<b>Dates Attended (Duration)</b>	<b>Organised by Department/Coll ege/University</b>
<b>1.</b>	2024-25				
<b>2.</b>	2023-24	Performance evaluation of Co2 reduction in green materials	International Conference	August 2024	<b>G.T.N Arts College organized by Heriot watt university, UK</b>
<b>3.</b>	2022-23	Sustainable green building materials in advanced concrete structures	International Conference	June 2023	Dhanalakshmi Srinivasan College of arts and science for Women
<b>4.</b>	2021-22	Modern Performance evaluation of modern green building materials in concrete	International Conference	December 2022	Dhanalakshmi Srinivasan College of arts and science for Women
<b>5.</b>	2020-21				

24. Number of collaborations:

25. Professional Membership:

- Senior member of **International Society for Research and Development (ISR D)**
- Member of **International Association of Engineers (IAENG)**
- Senior member of **American Chemical Society (ACS)**

26. MOOC / Online Courses developed / Delivered / Attended:

<b>Academic Year</b>	<b>Course Registered for</b>	<b>Duration</b>	<b>No. of Weeks</b>	<b>Credits</b>	<b>% Obtained</b>
2024-25					
2023-24					

2022-23					
2021-22					
2020-21					

27. Awards /recognitions received: International, National, State, University level.

<b>Academic Year</b>	<b>Awards/Recognitions</b>	<b>Date and place</b>	<b>International/ National/ State/ University level</b>
2024-25			
2023-24			
2022-23			
2021-22			
2020-21	<b>Young Scientist Award</b>	February 2020	National