

FACULTY PROFILE

P. Raja Priya, B.E (Civil), M.E (Str.), (PhD)

Assistant Professor

Department of Civil Engineering
National Engineering College, Kovilpatti -628503

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Web of Science ResearcherID: HGC-3287-2022



ACADEMIC EXPERIENCE - 7 years 11 months

National Engineering College, Kovilpatti - Assistant Professor, 09. 06.2025 to till date

Francis Xavier Engineering College, Tirunelveli — Assistant Professor, 13.08.2018 - 31.05.2025

Duties other than Academic:

1. NBA criteria In-charge
2. Website In-charge
3. R&D member

EDUCATIONAL QUALIFICATION

Anna University Chennai - Doctor of Philosophy (PhD) in Civil Engineering

July 2024 onwards.

Research Topic: Assessment and Enhancement of Steel Corrosion Resistance in Alkali-Activated Concrete for Marine Environments: Towards Practical Applications.

Research Centre: National Engineering College, K.R.Nagar, Kovilpatti, Thoothukudi

Anna University Regional Campus, Tirunelveli — M.E in Structural Engineering

June 2014 - June 2017

First Class - 8.13 CGPA

PG project on “A study on enhancing the behavior of Portland slag cement mortar by partial replacement of pozzolanic additives”

Thiagarajar College of Engineering, Madurai— B.E in Civil Engineering

June 2007 - June 2011

First Class - 8.20 CGPA

UG project on “Removal of colour and COD from waste materials as adsorbents”.

AREA OF INTEREST

Concrete Technology, Strength of Materials, Structural Analysis, Geotechnical Engineering, Design of RCC structures

JOURNAL PUBLICATIONS

1. Raja Priya P et. al (2024), Studies On Strength Aspect and Effective Use of Medical Face Mask to Make a Sustainable Green Fiber Reinforced Concrete, Sigma Journal of Engineering and Natural Sciences. Vol. 43, Issue No. 1, pp. 260–268, February, 2025. DOI: 10.14744/sigma.2024.00048
2. Kannan Vellaipandian, **Raja Priya Periasamy**, Venkatesan Balasubramanian (4 May 2023), Prediction and Validation of Constituent Materials for Concrete Manufacturing Using Artificial Neural Network, Innovative Infrastructure Solutions, SCI journal (Springer Publication) (IF=0.46), (2023) 8:160. DOI: <https://link.springer.com/article/10.1007/s41062-023-01127-4>. (ISSN: 2364-4176, IF=2.4), pp-1-10.
3. **Raja Priya P et. al**(MARCH 07 2023), Assessment of water demand and potential water sources to face future water scarcity of hilly region, Journal of Water Supply: Research and Technology-Aqua. DOI: 10.2166/aqua.2023.212. (ISSN: 2709-8036, IF=4.3), Vol 72 No 3, pp.299 -312.
4. **Raja Priya Periasamy et. al** (27 February 2023), Effects of metakaolin on the shear capacity of EBFRC beams: An experimental and numerical investigation, Construction and Building Materials 367 (2023) 130291. DOI: <https://doi.org/10.1016/j.conbuildmat.2023.130291>. (ISSN: 0950-0618, IF=7.4)
5. **P.Raja Priya et. al (11 January 2021)**, "Evaluation of the Permeability of High Strength Concrete Using Metakaolin and Wood Ash as Partial Replacement for Cement", SN Applied Sciences (Springer publication-SCI journal), (2021) 3:90. DOI: <https://doi.org/10.1007/s42452-020-04024-y> [E-ISSN:2523-3971, IF=2.6, WoS,SCI]
6. **P.Raja Priya et. al** (Feb 2020) An Experimental Study on the Strengthening of Concrete Column using Glass Fibre Wrapping' GEDRAG & ORGANISATE REVIEW, vol.33,issue 2,pp 56-67. DOI:10.37896/GOR33.02/025. [ISSN:0921-5077]
7. **P.Raja Priya et. al** (Nov, 2019). Performance and Microstructural Analysis of Portland Slag Cement Mortar Induced with Pozzolanic Additives' International Journal of Recent Technology and Engineering, ISSN:2277-3878, vol. 8, issue 4,pp. 744-750.

CONSULTANCY WORKS:**AY 2025-2026**

Sl. No	Name of the faculty members involved	Name & address of the Organization	Nature of Consultancy work & Date	Duration / Status	Revenue generated, (Rs.)
1	1. Dr.V.Kanna n, Prof. Civil (CC), 2. Mrs.P.Raja Priya, A.P (CCC)	Selvi.R.Iswarya, I.A.S, Additional Collector (Dev)/ Project Director, District Rural Development Agency, Thoothukudi.	Verification Report on Construction of Bridge Across Kattu odai along nagampatti to valasalpatti road (R78) at CH 0/6-0/8, savalaperi panchayat in kayathar block at thoothukudi district.	4.11.2025 to 8.11.2025 / Completed	80000
2	1. Dr.V.Kanna n, Prof. Civil (CC), 2. Mrs.P.Raja Priya, A.P (CCC)	A.Murugan Executive Engineer, District Rural Development Agency Thoothukudi	Verification Report on Construction of Bridge Across pottalurani supply channel along perurani, melathattaparai road 0/2 at thimmarajapura m panchayat in thoothukudi block at thoothukudi district.	4.2.2026 to 11.2.2026 / Completed	30000

3	<p>1. Dr.V.Kanna n, Prof. Civil (CC),</p> <p>2. Mrs.P.Raja Priya, A.P (CCC)</p>	<p>SIDONE Infrastructure Pvt. Limited 59/G5, Adura Regent Apartment, Perumalpuram Tirunelveli-7</p>	<p>Structural Consultancy Report on Steel stability in terms of strength and corrosion for Proposed apartment construction at Tirunelveli</p>	<p>26.2.2026 to 05.03.202 6 / Complete d</p>	12000
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JOURNAL MANUSCRIPT REVIEW

1. **Raja Priya P**, Reviewed a paper under the title of “**Anti-Microbial Resistance Studies of Silver (i) and Copper (ii) from the Acylation of Urea Ligands with Benzoyl Chloride**” for SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES E-ISSN: 1304-7205 on 7th April’ 2025.
2. **Raja Priya P**, Reviewed a paper under the title of “Continuous Dyeing of Graphene and Polyaniline on Textiles for Electromagnetic Interference Shielding: An Application of Intelligent Fabrics” for SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES E-ISSN: 1304-7205 on 18th Oct’ 2024.
3. **Raja Priya P**, Reviewed a paper in the title of “Security in UAV Ecosystem: An Implementation Perspective” for SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES E-ISSN: 1304-7205 on 22nd Oct’ 2023
4. **Raja Priya P**, Reviewed a paper in the title of “Development of Environmental Concrete by using Waste Glass Powder as a Partial Natural Sand Substitution” for SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES E-ISSN: 1304-7205 on 3rd Sept’ 2023
5. **Raja Priya P**, Reviewed a paper in the title of “Security in UAV Ecosystem: An Implementation Perspective” for SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES E-ISSN: 1304-7205 on 7th July’ 2023
6. **Raja Priya P**, Reviewed a paper for Materials Today: Proceedings (Elsevier), E-ISSN: 1304-7205 April 2023.
7. **Raja Priya P**, Reviewed a paper titled of “A Survey of Usage Potentials of Natural Fiber Composites Especially on Kenaf Fiber in Architectural Spaces” for SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES E-ISSN: 1304-7205 on 5th April’ 2023.
8. **Raja Priya P**, Reviewed a paper under the title of “Self-Compacting Concrete with a Large Amount of Cementitious Ingredients Suffers from Shrinkage, Creep, and Elastic Shortening” for SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES E-ISSN: 1304-7205 on 5th Dec’ 2022.

PATENT PUBLICATIONS/GRANT

1. **P.Raja Priya** (1) and one other, **MULTI FUNCTIONAL ALIDADE**, Design patent Application Number: 478906-001, Dated: 03.11.2025. Registration date: 28/10/2025-Granted
2. **P.Raja Priya** (1) and four Students, **TRIANGULAR NUT HEAD FOR STEEL STRUCTURALCONNECTION**, Design patent Application Number: 401629-001, Dated: 7.12.2023. Registration date: 22/05/2024-Granted
3. **P.Raja Priya** (2) and one other, **A NEW PLUMB BOB TO MEASURE THE VERTICALITY IN A CURVED STRUCTURES (CONCAVE SIDE) DURING THE CONSTRUCTION PROCESS**, Application No. 202241067476 A on 24.11.2022, Publication date: 02/12/2022. The Patent Office Journal No. 48/2022 Dated 02/12/2022. Page: 76251.

BOOK PUBLICATION

1. Dr.V.Kannan & P.Raja Priya (2026), ‘Construction Techniques and Sustainable Practices, published and got approval from Raja Rammohun Roy National Agency for ISBN, Department of Higher Education, MHRD, Government of India in October 2025. ISBN: 978-93-341-1313-6 on 02.08.2024. Publication in Amazon Kindle.
2. Dr.V.Kannan & P.Raja Priya (2025), ‘Concrete Technology and Testing Methods’, published got approval from Raja Rammohun Roy National Agency for ISBN, Department of Higher Education, MHRD, Government of India in August 2024. ISBN: 978-93-341-1313-6 on 02.08.2024. Online Publication in Amazon Kindle.

INDUSTRY KNOW-HOW

1. Ms. P. Raja Priya, Assistant Professor, Department of Civil Engineering, National Engineering College, Kovilpatti, has successfully undergone Industrial Exposure Training under the “Industry KNOW HOW” Scheme at Sidone Infrastructure Pvt. Ltd. from 27.11.2025 to 29.11.2025 at Tirunelveli.

CONFERENCES (National / International)

1. **P.Raja Priya**, Presented a paper titled, “Sustainable Geopolymer Concrete Incorporating Ceramic and Concrete Waste and Its Influence on Mechanical and Microstructural Properties” in **6th** International Conference on “**SUSTAINABLE ENVIRONMENT & CIVIL ENGINEERING**” Organized by **Department of Civil Engineering, Easwari Engineering College, Ramapuram, Chennai, India** held on 27th & 28th March 2025.
2. **P.Raja Priya**, Presented a paper on “An Investigation on SCC using Lightweight Material” in the International Conference on Recent Trends in Engineering Technology and Management, conducted by Coimbatore Institute of Engineering and Technology, Coimbatore.
3. **P.Raja Priya**, Presented a paper on “Effect of waste tyre rubber crumbs and lime on stabilization of weak soil” in the International Conference on Smart City and Green Solutions conducted by Francis Xavier Engineering College, Tirunelveli.

WORKSHOP / SEMINAR / FDP ATTENDED

1. P.Raja Priya has been awarded first prize (best poster award) for Sustainable Ambient Cured Alkali Activated Concrete Hybrid RSM-ANN optimization Framework in National Workshop on Corrosion and its Control organized by NCCI, CSIR-CECRI Karaikudi and NEC-Kovilpatti on held during 17th and 18th June 2026 at NEC-Kovilpatti.
2. **P. Raja Priya** has been awarded Elite with Gold (92%) & **1% topper** in the NPTEL online certification course / 4 weeks (Jan-Feb 2026) & Faculty Development Program on Design Thinking-A primer.
3. **P. Raja Priya** has been awarded Elite with Silver (75%) & 5% Topper in the NPTEL online certification course / 8 weeks (Jan-March 2026) & Faculty Development Program on Development and Application of Special Concretes.
4. **P. Raja Priya** has been awarded the Elite (62%) in the NPTEL online certification course (12 weeks, July-October 2025) & Faculty Development Program on Advanced Concrete Technology.
5. **P.Raja Priya** has undergone one day workshop on “corrosion and its Control in concrete structures” on 28.01.2026 held at Corrosion testing center, CSIR-CECRI, Mandapam Camp, Ramanathapuram, Tamilnadu.
6. **P. Raja Priya** has been awarded Elite with Gold (96%) & **1% topper** in the NPTEL online certification course / 12 weeks (July-October 2024) & Faculty Development Program on Research Methodology in Natural Sciences.
7. **P. Raja Priya** has been awarded Elite (71%) in the NPTEL online certification course / 12 weeks (Jan-April 2024) & Faculty Development Program on Retrofitting and Rehabilitation of Civil Infrastructure.
8. **RAJA PRIYA P** has successfully participated in the Masterclass Series under IP Utsav, organised virtually by the All-India Council for Technical Education (AICTE) and the Ministry of Education’s Innovation Cell (MIC) from 21st April to 26th April 2025.
9. **P.Raja Priya** has undergone a week's FDP on “Self-Directed Learning in Engineering Education: A Future Perspective” from 09/12/2024 to 13/12/2024 (Notional Learning Hrs: 20), the training program organised by NITTTR, Chennai.
10. **P. Raja Priya** has been awarded Elite with Silver (82%) in the NPTEL online certification course / 12 weeks (July-October 2024) & Faculty Development Program on Architectural Approaches to Decarbonization of Buildings.
11. **P. Raja Priya** has been awarded Elite with Silver (81%) & **5% topper** in the NPTEL online certification course / 12 weeks (July-October 2024) & Faculty Development Program on Introduction to Engineering Seismology.
12. **P. Raja Priya** has been awarded Elite with Silver (84%) & **1% topper** in the NPTEL online certification course / 12 weeks (Jan-April 2024) & Faculty Development Program on Maintenance and Repair of Concrete Structures.
13. **P.Raja Priya** has undergone one week FDP on “Developing Teaching Professionals for Institutional Development” from 18/03/2024 to 22/03/2024 (Notional Learning Hrs: 20), the training program organized by NITTTR, Chennai.
14. **P.Raja Priya** has undergone a one-week FDP on “Nurturing Intent, Initiative, and Innovation for Business Startups” from January 8th to 12th, 2024, the training program organised by the EDIC Department of NITTTR, Chandigarh.
15. **P. Raja Priya** has been awarded the NPTEL online certification course / 12 week (July - Oct 2023) on Strength of Materials with Elite (71%) category.
16. **Raja Priya P** has undergone ten days “Faculty Entrepreneurship Development Programme” funded by the Department of Science and Technology, Ministry of

Science and Technology, Govt. of India, organised by Kalasalingam Academic of Research and Education from 24.07.2023 to 05.08.2023.

17. **Raja Priya P** has undergone two two-week international faculty development program on “Research Tools” organised by the Department of Artificial Intelligence and Data Science, Eswari Engineering College, held between 03.07.2023 to 14.07.2023.
18. **Raja Priya P** has undergone a software training programme ‘ETAB and SAFE Complete Building Design Course (19 conduct hours), conducted by UDEMY on 01.07.2023.
19. **Raja Priya P** has undergone an ISTE-approved faculty development program (FDP) ‘Scientific research, Grants and Intellectual Property Rights’ from 12.06.2023 to 16.06.2023, conducted by Adithya Institute of Technology, Coimbatore, Tamil Nadu state.
20. **Raja Priya P** has undergone Innovation Ambassador (IA) training ‘Reskilling’ (total 21 sessions of 21 contact hours) conducted in online mode by MoE’s innovation cell & AICTE during the IIC calendar year 2022-23.
21. **Raja Priya P** has undergone Innovation Ambassador (IA) training ‘Advanced level’ (total 15 sessions of 30 contact hours) conducted in online mode by MoE’s innovation cell & AICTE during the IIC calendar year 2022-23.
22. **P. Raja Priya** has been awarded Elite with silver (79%) & **5% topper** in the NPTEL online certification course / 12-week (Jan - April 2023) faculty development program in Concrete Technology.
23. **Raja Priya P** has undergone Innovation Ambassador (IA) training ‘Foundation level’ (total 15 sessions of 30 contact hours) conducted in online mode by MoE’s innovation cell & AICTE during the IIC calendar year 2022-23.
24. The Indian Green Building Council (IGBC) awarded the Title of ‘**IGBC Accredited Faculty**’ to **Raja Priya.P** for having successfully completed the faculty training programme conducted during 13-24 March 2023 and demonstrated her knowledge on Green Building and Built Environment.
25. **P. Raja Priya** has attended five five-day Short Term Course on PDP 106 –"GIS Applications in Urban Infrastructure Management" from 21.11.2022 to 25.11.2022, Conducted by NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING & RESEARCH Taramani, Chennai 600 113.
26. **P. Raja Priya** has been awarded Elite with silver (79%) in the NPTEL online certification course / 12-week (July - Oct 2022) faculty development program in Design of Reinforced Cement Concrete.
27. **P. Raja Priya** has successfully completed the 4-day hands-on workshop on “Effective and Efficient Online Teaching in the Age of Corona” conducted by IIT Bombay from 14.5.2020 to 17.5.2020.
28. **P. Raja Priya** has successfully completed the 4-day hands-on workshop on “The Bodhitree and Safe Tools for Effective Online Teaching” conducted by IIT Bombay from 18.6.2020 to 21.6.2020.
29. **P. Raja Priya** has been awarded Elite with Silver (79%) in the NPTEL online certification course / 12-week (July-Oct 2019) Faculty Development Program in Foundation Engineering.
30. **P. Raja Priya** has been awarded the NPTEL online certification course / 12 week (Jan - April 2020) online faculty development program in Geotechnical Engineering - I with a score of 94%.
31. **P. Raja Priya** has been awarded with a certificate for the online course on “Geo-processing and Visualization on Web Platform” conducted by Indian Institute of Remote Sensing (IIRS) during 27.01.2020 to 07.02.2020.
32. **P. Raja Priya** has been awarded with a certificate for the online course on “Basic

Principles of Remote Sensing Technology” conducted by Indian Institute of Remote Sensing (IIRS) during 13.04.2020 to 25.04.2020.

33. **P. Raja Priya** has been awarded with a certificate for the online course on “Overview of Planetary Geosciences with special emphasis to the Moon and Mars” conducted by Indian Institute of Remote Sensing (IIRS) during 08.06.2020 to 12.06.2020.

AWARDS AND RECOGNITION

1. **P.Raja Priya** has been recognised as 1 % topper in the NPTEL course on Design Thinking-A primer for the Jan-Feb 2026 session.
2. **P.Raja Priya** has been recognised as 5 % topper in the NPTEL course on Development and Application of Special Concretes for the Jan-March 2026 session.
3. **P.Raja Priya** has been recognised as 1 % topper in the NPTEL course on Research Methodology in Natural Sciences for the Jan-April 2025 session.
4. **P. Raja Priya** has been assigned an NPTEL course for translation editing in the Tamil language for “Geosynthetics and Reinforced Soil Structures (105106052)”- Lecture 15 -21.
5. **P. Raja Priya** has been recognised as a 5 % topper in the NPTEL course on Introduction to Engineering Seismology for the July-October 2024 session.
6. **P. Raja Priya** received the certificate of appreciation from the Centre for Continuing Education, IIT Madras, and has been recognised as NPTEL Discipline Star for Jan-April 2024.
7. **P.Raja Priya** has been recognised as 1 % topper in the NPTEL course on Maintenance and Repair of Concrete Structures for the Jan-April 2024 session.
8. **P.Raja Priya** has been recognized as 5 % topper in the NPTEL course on Concrete Technology for the Jan-April 2023 session.

SOFTWARE PROFICIENCY

AutoCAD, StaadPro, OpenShot video editor for online teaching, BhodiTree (IITM App), and Learning management systems (LMS)

COLLEGE LEVEL / DEPARTMENT PROGRAM COORDINATED

- 1) Start step to start up...on 15th May 2020, organized by FX Entrepreneurship Development Cell, FXEC.
- 2) Implementation of Quality Control in Concrete – A Practical Approach on 27th July 2020, organized by the Department of Civil Engineering, FXEC
- 3) Bond Performance of Pretensioned Concrete – An Overview on 14th July 2020, organized by the Department of Civil Engineering, FXEC.

PROFESSIONAL ASSOCIATION MEMBERSHIP

1. International Association of Engineers (Membership ID: 326836), Since Dec 7, 2022
2. American Society of Civil Engineers (Membership ID: **000012473885**), Since **July 14, 2024**

Place: Thoothukudi

Date: 01.07.2026

Signature

