FACULTY PROFILE



Name of Teaching Staff / RMK ID	**Dr. L. Andal / T1133**		
Designation	Professor & Head		
Department	Civil Engineering		
Date of Joining the Institution	10.06.2024		
Qualifications	B.E Civil Engineering	M.E Structural Engineering	Ph.D in Civil Engineering
Total Experience	Overall : 33 Years		
Papers Published in Journal	Overall : 26		
List of Papers Published	1. Dr. L. Andal "Role of AI/ML for Design of Electronic Devices Used in Communication" Intelligent Systems in Solid-State Electronics and Communication Engineering, pp 128–138, April 2026. 2. Dr. L. Andal "IoT Sensors for Safety in Smart Mining Operations" Multimedia and AI Applications for Sustainable Smart Mining and Energy, pp 135–162, February 2026. 3. Dr. L. Andal "Al-Driven Predictive Maintenance in Industrial IoT Systems: A Comprehensive Review", 2026, IEEE Explore. **DOI:** 10.1109/IEMENTech202669403.2026.11434097 4. Dr. L. Andal "Design and Evaluation of a Star-Shaped Microstrip Patch Antenna for Wireless Applications with a Defective Ground Structure", 2026, IEEE Explore. **DOI:** 10.1109/IEMENTech202669403.2026.11434381 5. Dr. L. Andal "Evaluating Deep Learning Models for Heart Disease Prediction in IoT-Enabled Healthcare Systems", 2026, IEEE Explore. **DOI:** 10.1109/IEMENTech202669403.2026.11434378 6. Dr. L. Andal "Design a Compact Slot-Loaded Microstrip Antenna for Wearable and IoT Applications" in Emerging Electronics and Automation, Volume 1 part of the book Lecture Notes in Electrical Engineering, pp 313–323, January 2026. **DOI:**10.1007/978-981-96-9554-6_25 7. Dr. L. Andal "Comparative Modal Analysis of Microwave		

	Antenna Towers" Innovations, Challenges, and Solutions for a Sustainable Future, pp 54–68, December 2025. 8. Dr. L. Andal "Determination of Ground Water Quality for Drinking and Irrigation Purposes in Madurai Using Water Quality Indices" at the Proceedings of the 7th International Conference on Modelling and Simulation in Civil Engineering 2024, Volume I and published in Lecture Notes in Civil Engineering, Springer. **DOI: https://doi.org/10.1007/978-981-95-1726-8_9** 9. L. Andal, "Modelling of groundwater quality in Madurai using Ann," Lecture Notes in Civil Engineering, Springer, Vol:464 https://doi.org/10.1007/978-981-97-0910-6_29 ISBN:978-981-97-0909-0 10. L. Andal, "Crack width Prediction of RC Beams by Artificial Neural Networks," Materials Today: Proceedings, Elsevier, 2023, 2214-7853 https://doi.org/10.1016/j.matpr.2023.05.377 11. L. Andal, "Batch, Thermodynamic and regeneration studies of reactive glue 19 using reticulate (Biochar)," Desalination and Water Treatment Science and Engineering, 2022, pp. 267(9), 231-239. doi: 10.5004/dwt.2022.28667 12. L. Andal, "Prototype of Light weight concrete wall panels incorporating Phase change material (PCM)," 14th Scientific and Technical Conference Energodom 2022, 2022. 13. L. Andal, "Behavior of Polypropylene and Steel Fibre Reinforced High Strength Concrete Exterior Beam Column Joint," Material Research Proceedings, 2022, Vol. 23, No. 148. 14. L. Andal, "Behaviour of Polypropylene and Steel Fibre Reinforced High Strength Concrete Exterior Beam Column Joint," Sustainable Materials and Smart Practices: NCSMSP-2021, 2022, received Best Paper Award. 15. L. Andal, "Evaluation of the performance of packed bed column for heavy metal ion removal using rice husk powder coated with iron oxide nano-particles," Global Nest Journal, 2022, Vol. 24(3), pp. 474-486, https://journal.gnest.org/ https://doi.org/10.30955/gnj.004331 16. L. Andal, "Sustainable Light weight green concrete blocks fabricated using disparate foaming agents," International Journal of New Innovations in Engineering and Technology, 2020, Vol. 13(4), May 2020, pp. 23-28, ISSN: 2319-6319. 17. L. Andal, "Investigation of Phase changing material implementation over Construction materials," International Research Journal of Engineering and Technology (IRJET), 2019, Vol. 6(10), October 2019, pp. 1-5, ISSN: 2395-0072. 18. L. Andal, L. Ponraj Sankar, "An experimental study on compressive strength of fine grinded fly ash admixed

	concrete," International Journal of Civil Engineering and Technology (IJCIET), 2018, Vol. 9(13), pp. 1138-1141. 19. L. Andal, L. Ponraj Sankar, "Investigation on ecofriendly binder with fine grinded fly ash as pozzolanic replacement," Ecology, Environment and Conservation, 2018, Vol. 24, pp. S232-S236. 20. L. Andal, K. Senthamaraikannan, "An investigation on strength development of cement with cenosphere and silica fume as pozzolanic replacement," Advances in Materials Science and Engineering, 2016, Vol. 2016, 5 pages. 21. L. Andal, K. Senthamaraikannan, "A study on setting time and strength of cement with cenosphere and silica," Journal of Applied Engineering Research, 2015, Vol. 10(55), pp. 4231-4235, https://doi.org/10.1155/2016/9367619 ISSN: 1687-8434 22. L. Andal, M. Bagyalakshmi, A. V. Deepan Chakravarthi, "Studies on impact of copper slag as fine aggregate replacement in concrete pavement," Journal of Applied Engineering Research, 2015, Vol. 10(12), pp. 30943-30952. 23. L. Andal, M. Bagyalakshmi, A. V. Deepan Chakravarthi, "Durability of concrete pavement with partial replacement of fine aggregate by copper slag," Journal of Applied Engineering Research, 2015, Vol. 10(15), pp. 35701-35703. 24. L. Andal, M. S. Palanichamy, M. Sekar, V. Vanitha, "Analysis of trough shaped ferrocement roofing elements using ANSYS," NBM&CW, 2009, Vol. 15, pp. 176-178. 25. L. Andal, N. Sureshkumar, P. Rajeswari, A. Gopinath, "Analysis of EMI shielding Effectiveness of Building Materials," EEIJ, An International Journal of Electrical Engineering, 2014, Vol. 1(1), pp. 11-19. 26. L. Andal, M. S. Palanichamy, M. Sekar, "Durability of Polymer and flyash modifies ferrocement elements," Indian Concrete Institute, 2007, Vol. 8, pp. 7-12.	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 9	
Ph.Ds / Projects Guided	Ph.Ds Guided : 2	Student Projects Guided : 53
Books Published :	Count : nil	
	List : -	
Patents	Published Count : 1	Granted Count : 1

	List : 1. Dr.L.Andal "CSFB- Material Cold Setting Fly Ash Building Construction Materials" Application No. 202041000844 dated 08/01/2020 published on 17/01/2020 2. Dr.L.Andal, "Solarized Opposingly Foldable Wall Awning" Application No. 79556-001, granted on 17.02.2024.
Professional Memberships	Count : 4
	List : 1. Life member of ISTE (LM14471) 2. Life member of ICI (LM5279) 3. Institution of Engineers (India) F 1220575 4. IEEE (101601937)
Consultancy Projects Completed	Count : 22
Awards Received	Count : 9
	1. Participated in concrete cube competition conducted by ACCE, and won the "Special Appreciation Award" for making ultra-high strength concrete during Sep. 2000. 2. The project titled "Design of an aesthetic and cost effective steel intensive dhaba" won Third prize in national level competition conducted by INSDAG in Kolkatta on 22ndJuly 2006. 3. Designed Low cost Individual Household Toilet with pre – fabricated elements that can be constructed in one day. Received overwhelming response from public and encouragement from Government officials to promote it under Swachh Bharat Scheme. Constructed 10 toilets in a day in Panaiyur village in Madurai on 25.03.2017. 4. Acted as reviewer for the International Journal Construction and Building Materials 5. Approved Supervisor of Anna University, Chennai (Ref No: 2810031) 6. Programme Co-ordinator for ME Infrastructure Engineering in PSG College of Technology, Coimbatore for the academic year 2018 – 19. 7. Acted as Chair Person for Anna University Affiliation committee in the year 2019. 8. Delivered Webinar On "Public Private Partnership in Infrastructure Development" at KPR Institute of Engineering and Technology, Coimbatore on 30.05.2020

	9. Received "Outstanding Concrete Teacher 2025" by the Indian Concrete Institute
Research grants Received	1. "Indigenisation of Design and Manufacture of Magnesium Oxide Board for Rapid and Affordable House Construction" (TPN/79346), funded by the Technology Development Programme, DST, New Delhi. Duration: 3 years. Amount: Rs. 47.24 lakh. Status: Ongoing. 2. "Development of PCM encapsulated lightweight aggregate wall panels for thermal comfort in buildings," funded by the India-Poland Inter-Governmental Science & Technology Cooperation Programme, Joint Research Project, DST, New Delhi. Duration: 2 years. Amount: Rs. 9 lakh. 3. "Conductive concrete blocks from industrial waste as electromagnetic shielding material," funded by DST, New Delhi. Duration: 3 years. Amount: Rs. 27.59 lakh. Status: Completed (DST rated the project 9 out of 10).
Google Scholar Link / ID	ID : https://scholar.google.com/citations?user=hyOmLEcAAAAJ&hl=en&oi=sra
Scopus Link / ID	ID : https://www.scopus.com/authid/detail.uri?authorId=24176685200
Vidwan Link / ID	https://vidwan.inflibnet.ac.in/profile/244179
Research Gate Link / ID	https://www.researchgate.net/profile/Andal-Lakshumiah
Orchid link / ID	https://orcid.org/0000-0002-6910-0240