


FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. A. Hemamathi / T0474			
Designation	Associate Professor			
Department	Civil Engineering			
Date of Joining the Institution	14.02.2007			
Qualifications	B.E in Civil Engineering	M.E in Structural Engineering	Ph.D in Civil Engineering	
Total Experience	Overall: 16 years 9 months		in RMK: 16 years 9 months	
Nature of Association (Regular/Contract/Adjunct)	Regular			
Papers Published in Journal	Overall: 16		After Joining RMK: 16	
List of Papers Published	<ol style="list-style-type: none"> 1. Aishwarya R, Hemamathi A, Binu S, Suvetha V (2023) Investigation and Indexing of Eco-Toxic Metals in the Groundwater Around the Kodungaiyur Dumpsite. Indian Journal of Science and Technology 16(13): 998-1006. https://doi.org/10.17485/IJST/v16i13.1405 2. Dr. A. Hemamathi, Dr. Binu Sukumar, and R.B. Hambrish Guru Chantrakant, "Numerical Analysis of RCC Beam Using ABAQUS", IOP Conf. Series: Earth and Environmental Science, IOP Publishing, doi:10.1088/1755-1315/1084/1/012077 3. Aishwarya R, Faizuneesa A, Hemamathi A, Ramshankar P, Yuvaraj M, "Correlation Study of Physico-Chemical Parameters and Water Quality Index Around Kodungaiyur Dumping Ground", IOP Conf. Series: Earth and Environmental Science, IOP Publishing, doi: 10.1088/1755-1315/1084/1/012061 4. Dr. M. Usha Rani, Dr. Binu Sukumar, Ms. A. Hemamathi, "Analysis of Plane Truss using C Programme", JASC: Journal of Applied Science and Computations ISSN NO: 1076-5131, Volume VIII, Issue XII, December/2021 5. Dr. M. Usha Rani, A. Hemamathi, M. Banumathi, "Experimental Study on Influence of Confinement by CFRP Wrapping on Concrete Columns", Turkish 			

Online Journal of Qualitative Inquiry (TOJQI)
Volume 12, Issue 10, October 2021: 3911-3917

6. **A. Hemamathi**, Sanjith Murugavel, Binu Sukumar, M. Usha Rani, “Numerical Investigation of Precast Grouted Sleeve Connection under Cyclic Loading Using ABAQUS”, IOP Publishing, Journal of Physics: Conference Series 2070 (2021) 012178 <https://doi.org/10.1088/1742-6596/2070/1/012178>
7. L. Hemamathi, K. P. Jaya, “**Behaviour of Precast Column Foundation Connection under Reverse Cyclic Loading**” Advances in Civil Engineering, Hindawi Volume 2021, Article ID 6677007, 17 pages <https://doi.org/10.1155/2021/6677007>
8. G Dhillip Kumar, Binu Sukumar, **A Hemamathi**, P Ram Shankar and Sharanya Balki, “**Experimental investigation on Ferrocement slab using partial replacement of cement by ceramic powder**” IOP Publishing, Journal of Physics: Conference Series 2070 (2021) 012195 <https://doi.org/10.1088/1742-6596/2070/1/012195>
9. **A Hemamathi**, J. Lakshmanan, Binu Sukumar, M. Usharani, “Development of nylon and ABS based binding strips- an alternate to binding wires”, Elsevier- Materials Today- Proceedings” <https://doi.org/10.1016/j.matpr.2020.10.817>
10. **A. Hemamathi**, M. Arthi, A. S. Abinaya Kamalvizhi, T. Deena, K. Gomathi, “Effective utilization of food waste for the production of bio gas and fertilizer”, Journal of Xidian University, ISSN No:1001-2400, VOLUME 14, ISSUE 8, 2020 Pg. 212 – 220 <https://doi.org/10.37896/jxu14.8/022>
11. **A. Hemamathi**, M. Usharani, Seena Simon, I. Lavanya, M. Raja Rajeshwari, “Numerical Analysis of Solar Roadways using ANSYS” International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-1S, November 2019, Pg. 384-389.
12. M. Usha Rani, **A. Hemamathi**, “Assessment of Reinforced Concrete Corroded Column By Non-Destructive Test” International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-1S, November 2019, Pg. 380-383.

	<p>13. Seena Simon, A. Hemamathi, J. Jenishta louis, “Strength Assessment on Flyash Based Geopolymer Concrete” International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-1, November 2019, Pg. 3956-3960.</p> <p>14. A. Hemamathi, Kokila S & Anish R (2019) “Experimental Investigation of Hollow Block Made From Bottom Ash & Geosynthetic Fibre As Admixture”, International Journal Of Engineering Sciences & Research Technology, June 2019, ISSN: 2277-9655, pg. 220-223, DOI: 10.5281/zenodo.3256139</p> <p>15. Hemamathi, Binu Sukumar, S. Kokila (2017) “Comparative study on strength characteristics of Geo grid and Ferro cement panel” SSRG International Journal of Civil Engineering (SSRG - IJCE), V4 Issue 7, July 2017.</p> <p>16. A. Hemamathi, Binu Sukumar, S. Kokila and C. Hanish (2016) “A Comparative Study on Non-Linear Analysis of Frame with and without Structural Wall System” SSRG International Journal of Civil Engineering (SSRG - IJCE), V3 (2), 42-47 March 2016.</p>	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall: 04	After Joining RMK: 04
Ph.Ds / Projects Guided	Ph.Ds Guided: NA	Student Projects Guided: 20
Books Published:	Count: Nil	
	List:	
Patents	Published Count: 2	Granted Count: 1
	List: <ol style="list-style-type: none"> 1. An Indian patent on “Building block from plastic waste using 3D printing technology” has been published in Indian Patent journal on 18.11.2022 with Application no. 202241063496 2. An Indian patent on “A PRECAST COLUMN FOUNDATION CONNECTION SYSTEM THROUGH POCKET” has been published in Indian Patent journal on 01.07.2022 with Application no. 202241033174 A 3. An Indian patent on “A PORTABLE PRESSURE MEASURING DEVICE TO MONITOR LATERAL PRESSURE OF FRESH CONCRETE ON FORMWORK” has been granted in Intellectual 	

	Property India on 29.03.2023 with Application no. 202241047403
Professional Memberships	Count: 5
	List: <ol style="list-style-type: none"> 1. Life member of Indian Concrete Institute (ICI)- Membership no. 10957 2. Life member of Institution of Engineers (IEI)- Membership no. M -157761-6 3. Life member of Indian Society of Technical Education (ISTE) - Membership no. LM 62113 4. Life member of Indian Society of Systems for Science and Engineering (ISSE)- Membership no. LM06590 5. Life member of Institute of Researchers, Membership no. LM122220
Consultancy Projects Completed	Count: 1 List: <ol style="list-style-type: none"> 1. Plan, analysis, design and structural detailing of TRILOK GATED COMMUNITY VILLAS near CODISSIA, COIMBATORE for Gravity Construction Coimbatore for an amount of Rs. 50,000/- during December 2023
Awards Received	Count: 4
	List: <ol style="list-style-type: none"> 1. Received Academic Excellence Award 2023 at the event of World Engineering Day ENARKLE 2023 at Adhiyamaan Engineering College on 6th March 2023 2. Received Best Faculty Advisor Award 2023 at the event of World Engineering Day ENARKLE 2023 at Adhiyamaan Engineering College on 6th March 2023 3. Received Research Excellence Award from Institute of Researchers, Kerala on 31st January 2023 4. Recognised as NPTEL discipline star during July-December 2022 for completing more than 50 weeks of learning and certified in NPTEL courses of same discipline with score of more than 55.
Research grants Received	<ul style="list-style-type: none"> • Co- investigator for the project “Development of digital pressure monitoring system using sensors” funded by DST under DDP scheme: DST/TDT/DDP-35/2018 for an amount of Rs.27,20,696/- on 25.10.2019
Orcid Link / ID	Link: https://orcid.org/0000-0002-6049-9347
Google Scholar Link / ID	Link: https://scholar.google.co.in/citations?user=VMZYrywAAAAJ
Vidwan Link / ID	Link: https://vidwan.inflibnet.ac.in/profile/302715
Researcher Link / ID	Link: https://www.webofscience.com/wos/author/record/2298298

Scopus Link / ID	Link: https://www.scopus.com/authid/detail.uri?authorId=57211856328
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