

Faculty Profile

Dr.R.Lakshmi, Professor & Head/ Civil Engineering

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Educational Qualification			
Degree	Class	Institution	Year
B.E. (Civil Engineering)	I Class	Madurai Kamaraj University	1990
M.E. (Structural Engineering)	I Class	Madurai Kamaraj University	2002
Ph.D.	I Class with distinction (For course work subjects)	Anna University, Chennai.	2012

Experience - 19 Years			
Name of the College	Designation	Period	No. of. Years
Raja Coll. of Engg. & Tech., Mdu	Lecturer, Senior Lecturer	05.06.2000 - 06.06.2006	6Y
Vickram College of Engineering, Enathi, Sivaganga District	Assistant Professor & HOD	18.06.2006 - 06.05.2007	11M
KLN College of Information Technology, Pottapalayam.	Professor & HOD	16.05.2007 - 06.06.2013	6Y 1M
Kamaraj College of Engg. & Tech., Virudhunagar.	Professor & HOD	10.06.2013- Till date	6Y 3 M

Area of Expertise

- Structural Engineering
- E Waste Management
- Water Resources Management

Research Area

- ✓ Self Healing Concrete
- ✓ Bacterial Concrete
- ✓ Structural Health Monitoring
- ✓ Plastic Waste Management

Research Collaborations

- NAWAD Tech Mission Madurai – Research on Network of Rivers in India
- Public Works Department –Virudhunagar – Research on Eco restoration project at polluted zones of Kowsika River in Virudhunagar

Publications

Journals

S. N	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Lakshmi, R. and Nagan, S	Studies on Concrete Containing E-plastic waste	International Journal of Environmental Sciences	Vol. 1	No. 3, pp. 270-281	2010
2.	Lakshmi, R. and Nagan, S.	Investigations on durability characteristics of E-plastic waste incorporated concrete	Asian Journal of Civil Engineering (Building and Housing)	Vol. 12	No. 6, pp. 773 -787	2011
3.	Lakshmi, R. and Nagan, S.	Utilization of Waste E-plastic particles in cementitious mixtures	Journal of Structural Engineering, SERC Chennai,	Vol. 38	No. 1, pp. 26-35	2011
4.	Lakshmi,R	Bioremediation of heavy metals (Pt) from E waste by using erdolichelic penecilium	Conference on Recent trends in Biosciences @ Alagappa university, karaikdi	ISBN:978-8192	Pg: 8690-92	2014
5.	Lakshmi,R	Use of e-plastic waste in bituminous pavements	GRADEVINAR- Croatian Journal of Civil Engineering	Vol.No.70, Issue.No.7,629-637 DOI: https://doi.org/10.14256/JCE.1375.2015	0.345	2018
6.	R.Lakshmi, R.Selvaraj and S.Nivetha	Protective Coatings on Concrete Surface for Corrosion Prevention of Steel	International Journal of Advanced Research in Basic Engineering Sciences and Technology	E-journals 5717. Vol. No.4, Issue No.5,	Page No. 167- 172 ISSN 2456-	2018
7.	R.Lakshmi, R.Selvaraj and S.Nivetha "s"	Formulation of AntiCorrosive Coatings using Polyvinyl Acetate for Concrete Surface	International Journal of Science and Peer Journals	Research Vol. No.7, Issue No.5	Page No.1519-25 ISSN 2319-7064	2019

Conferences

Sl. No	Name of the Conference	National / International	Place	Date
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1.	Effective use of construction chemicals for durable & sustainable environment	ICI & ACCE	Organized by Continuous Professional Development program at Hotel fortune pandian, Madurai	07.10.2016 to 08.10.2016
2.	An overview on the Influence of Nanosilica based High Performance Concrete with Super absorbent polymer as Internal curing agent	International Conference on Emerging Trends in Engineering and Technology’.	Pandian Saraswathi Yadav Engineering College,Sivagangai	10.03.2017 & 11.03.2017
3.	Study on application of geopolymer mortar for repair of concrete column	‘Sustainable Building Materials and Methods’	Kamaraj College of Engineering & Technology	02.05.2019-03.05.2019
4.	Performance based Seismic Design of Hospital Building	International Conference on Sustainable Environment and Civil Engineering	Easwari Engineering College, Chennai	28.03.19 &29.03.19
5.	Seismic design of hospital building a comparative study	‘Sustainable Building Materials and Methods’	Kamaraj College of Engineering & Technology	02.05.2019-03.05.2019
6.	Investigation on Geopolymer Mortar for Rehabilitation works	International Conference on Innovations in ENgineering and Technology and Management	J.N.N Institute of Engineering	18.03.19
7.	State of Art Report on self-healing concrete	International Conference on Emerging Trends in Engineering and Technology	Pandian Saraswathi Yadav Engineering College, Arasanoor	11.03.2016 to 12.03.2016
8.	State of Art Report on self-healing concrete	"International Conference on Emerging Trends in Science, Engineering, Technology & Mgmt,	P.S.R Engineering College	07.04.2016 & 08.04.2016
9.	Recycling of E-Glass in concrete	International Conference on Emerging Trends in Science, Engineering, Technology & Mgmt,	P.S.R Engineering College	07.04.2016 & 08.04.2016
10.	Evaluation of shrinkage characteristics of nano particles based geopolymer concrete	International Conference on Emerging Trends in Engineering and Technology	Pandian saraswathi yadav engineering college	09.03.18 to 10.03.18
11.	Evaluation of polyvinyl acetate surface coatings for prevention of corrosion on steel in concrete	International Conference on Civil Engineering and Infrastructural Issues in Emerging Economies	SASTRA Deemed to be university, Thanjavur & Central Queensland University, Australia	16.03.2018 to 17.03.2018

12.	Protective coatings on concrete surface for corrosion prevention of steel	National Conference on Advanced Techniques in Concrete, Environmental and Geotechnical Engineering (NC-ATCEGE '18)	Kings of College of Engineering	21.03.2018
13.	Polyvinyl Acetate coatings for prevention of corrosion in concrete	National Conference on Trendy and Sustainable Development in Civil Engineering (NCTSDCE '18)	K.S.R College of Engineering, Thiruchengode	09.04.2018
14.	Investigation of polyvinyl acetate coatings on concrete surface	National Conference on Sustainability in Construction (NACSIC 2018)	Kalasalingam Academey of Research and Education, Krishnakoil	13.04.2018
15.	State of Art Report on self-healing concrete	International Conference on Emerging Trends in Science, Engineering, Technology & Management	Pandian Saraswathi Yadav Engineering College, Arasanoor	11.04.2016 to 12.04.2016
16.	An Investigation of Strength and Micro structural Properties of Bricks and Paver Blocks using RHA & WFS	International Conference on Civil Engineering Building Materials & Environmental Engineering	Maria college of engineering and technology	27.02.2015
17.	An experimental study on soil stabilization using stone column	International Conference on Civil Engineering Building Materials & Environmental Engineering	Maria college of engineering and technology	27.02.2015
18.	Feasibility study on the applications of GPS Technology for Structural health monitoring	International Conference on Civil Engineering Building Materials & Environmental Engineering	Maria college of engineering and technology	27.02.2015
19.	Structural Health Monitoring Of Bridge Structures Using Various Sensors And Strain Gauges	ICABCMS 2015	Selvam College of Technology, Namakkal	13.03.2015
20.	Perspectives On Plastic Waste Management Through Construction Practices	National Conference NICEGE -2015	GCT,Coimbatore	17.04.15

Resource Person / Jury / Lectures Delivered

S. No.	Topic	Programme	Date of Programme
1	Engineering Mechanics	Anna University sponsored FDP at Sethu Institute of Technology	4-12-2015
2	Economical Benefits of Network of rivers in India	National Conference on Interlinking water resources in India at VIT University, Chennai	20.11.2015
3	Skill Enablements essential for Civil Engineers	Technical Symposium at RAMCO Institute of Technology, Rajapalayam	28-08-2015
4	Opportunities for Civil Engineers in current scenario	Technical Symposium at Renganayagi Varatharajan Engg college, Sivakasi	15-08-2015
5	Chair person of Conference Presentations	National Conference on Innovations in Engineering, Science and Technology at Ramco Institute of Technology, Rajapalayam	24.03.2017
6	Smart Cities in India- Challenges and constraints	ICI & ACCE sponsored Seminar at Thiagarajar College of Engineering Madurai	11.03.2016 12.03.2016
7	Research Centre for Networking of Rivers in India	Rotary Club, Virudunagar in association with NAWAD Tech Mission, Madurai.	07.12.2016
8	Challenges in Networking of Rivers in India	Madurai Kamaraj University Campus, Madurai	20.01.2018
9	Industry preparedness for Civil Engineers	Technical Symposium at AAA College of Engg. & Technology, Sivakasi	12.08.2018
10	E waste Management & Business Plan	Workshop on Utilization of E-Waste in construction Dr.N.G.P Institute of technology, Coimbatore	04.01.2019
11	Three dimensional Analysis of Structural Elements & Mohr's stresses	AU Sponsored FDP on Strength of Materials at Ramco Institute of Technology, Rajapalayam	28.05.2019

10. Faculty acting as Reviewers

S. No.	Name of the Faculty	Designation & Department	Title of the Journal	Publisher	Editor/Special Issue Editor/Associate Editor/Reviewer
DEPARTMENT OF CIVIL ENGINEERING					
1.	Dr.R.Lakshmi	Professor & Head / CIVIL	World Journal of Engineering & Physical Sciences	World Science Research Journals	Reviewer
			Journal of Building Construction and planning	Scientific Research Publishing	Reviewer

Professional Body Membership

- Member of Board of Studies in Anna University, Chennai (2013-2016).
- GC Member in ACCE(I) Madurai Centre.
- EC Member in NAWAD Tech, Madurai
- GC & Planning and Monitoring Board Member, KCET

Noteworthy Contributions

Instrumental in preparing Network of Rivers Model

- The Inter-linking of Rivers in India proposal has a long history. In Association with NAWAD TECH Mission, a field model has been constituted at the institution campus to create awareness on Interlinking of Rivers in India and Demonstration on Ganga – Kumari Waterways Project.
- The model sprawls over an area of 10,000 sq.ft and inaugurated on 14.09.2015 presenting a wonderful outlook on the concept of Interlinking of Rivers in India and the benefits of the project. The complete model was prepared with the efforts of Department of Civil Engineering.



- Plastic House established in the college campus during August – September 2015 using plastic bottles filled with solid waste to demonstrate the waste management concept and more than fifty awareness programme were conducted for school students, College students Teachers of various institutions and public at various time frames.

- Plastic Bituminous Road was installed in the college campus during January 2016 using about 185 kg recycled plastic particles prepared from waste pet bottles. This is an initiative to disseminate the eco friendly plastic waste management strategic approaches.

Other Products developed:

- Rice Husk Ash replaced Paver Blocks
- Plastic aggregates based Paver Blocks

Eco restoration Project at Kowsika River in Virudhunagar

Eco restoration project for treatment of waste water streams polluting the Kowsika River in Virudhunagar was supported as technical consultant. This pilot study is carried out under the guidance of expert member Dr.S.Mohan, Professor, IIT Madras and Public Works Department, Virudhunagar.

Societal Contributions:

- Eco restoration project to treat Teppakulam in Virudhunagar
- Rain Water Harvesting scheme for railway junction in Virudhunagar
- Tree plantation of 100 tree saplings at KCET campus