

FACULTY PROFILE

Name : Dr.R.N.UMA
Designation : Professor & Head- Dept. of Civil Engineering
Email ID : uma.ce@srit.org

Area of Specialization : Environmental Engineering



Total Experience : Academic : 28 Years 5 Months
Industry : 1 Year 6 Months

Educational Qualification:

Degree	Branch / Specialization	College	University
B.E	Civil Engineering	Madras University	Government College of Engineering, Salem
M.E	Environmental Engineering	Bharathiyar University	Government college of Technology, Coimbatore
Ph.D	Environmental Engineering	Bharathiyar University	Government College of Technology, Coimbatore

Experience Details:

S.No	Institution/Industry	Design.	Experience		Total Years & Months
			From	To	
1	Sri Ramakrishna Institute of Technology	Professor & Head	30.06.2006	-	9 Years 8 Months
2	V.L.B.Janakiammal College of Engineering and Technology	Assistant Professor	01.08.1998	24.06.2006	7 Years 10 Months
		Senior Lecturer	01.01.1996	30.07.1998	2 Years 6 Months

		Lecturer	14.09.1987	31.12.1995	8 Years 3 Months
Total (as on Feb 2016)					Years-28 Months-5

Funded Projects:

S. No.	Funding Agency	Topic	Amount Sanctioned in Rs.	Year of Sanction
		NIL		

Consultancy Work:

S. No.	Organization/ Agency	Nature of Work	Amount in Rs.	Year
1	PWD, Mayannor	Survey	12,500.00	2012
2	L&T, Coimbatore	Rain water harvesting	1,10,000.00	2012
3	Dyers Association, Tirupur	Conversion of dyeing sludge into building materials	2,78,000.00	2013
4	Dyers Association, Tirupur	Conversion of dyeing sludge into building materials- Additional works	35,000.00	2014
5	Triveni Earth Movers	GPS Survey	10,000.00	2015
6	Dutch blue Garments, Tirupur	Soil Investigation	38,000.00	2015

Patents:

1. Application of waste Foundry Sand in enhancement of strength characteristics of Plain and Reinforced Concrete– December 2015. Application No.: 7106/CHE/2015
2. Title: Sustainable High Performance Concrete using Manufactured Sand Application No.: 7107/CHE/2015

Journals:

1. R.Premasudha, R.N.Uma, P.Nithya, "Adverse Impact on Soil and Groundwater due to Solid Waste Opendump in Coimbatore Town Panchayats", International Journal of Chemical Science:13(1),2015,376-388,ISSN 0972-768X.
2. Thiyagarajan Lakshmi Priya, R.N.Uma, S.Sivakumar, "Bioremediation of pulp and paper Industry Secondary Sludge Spiked with Cow Dung and Effective Microorganisms using Epigeic Earthworm Eudriluseugeniae (Kinberg)" Dynamic Soil, Dynamic Plant, GLOBAL Science books, Special issue of Vermitechnology- III.Vol.6,2012.
3. Shanmugapriya.T and Uma.R.N, "Optimization of Partial Replacement of M-Sand by Natural Sand in High Performance Concrete with Silica Fume", International Journal of Engineering Sciences & Emerging Technologies, Volume 2- 2, Pp 73-80, 2012
4. Thenmozhi.R and Uma.R.N, "Treatability Studies of Dairy Wastewater by UASB at Mesophilic Temperature for Different OLR", Journal of Industrial Pollution Control, Vol.28-2, 2012.
5. Thenmozhi.R and Uma.R.N, "Treatability studies of Dairy wastewater by upflow anaerobic sludge blanket reactor" in the Treatment of diary Waste Water, The International Journal of Civil and Environmental Research, Vol2 (5), 105-112, 2012
6. Thenmozhi.R and Uma.R.N, "Performance Evaluation of Hybrid upflow anaerobic sludge blanket reactor in the Treatment of diary Waste Water", The International Journal of Biotechnology, Vol2 (5), 105-112, 2013
7. Shanmugapriya.T and Uma.R.N, "Experimental Investigation on Silica Fume as partial Replacement of Cement in High Performance Concrete, The International Journal of Engineering and Science, Vol.2-2, 2013
8. H.Sumathy, Amiyakumarsahu&R. N. Uma, "Phase I Phenomenon: Analysis of municipal solid waste for Mettupalayam town", Pollution research, 2013, vol 32, No. 3, pp.521-528.
9. Shanmugapriya.T and Uma.R.N, "Environmental Friendly Silica Fume Based High Performance Concrete with M- Sand", International Journal of Pollution Research, Vol.33 (1) ,PP 223-227, 2014.`
10. R.Premasudha, R.N.Uma, Dr.Meiaraj, "Impact assessment of soil characteristics in and around vellaloredumpyard in Coimbatore City, Tamilnadu," "Ecology Environment and Conservation, 20 (3) : 2014; pp. (1163-1170) Copyright@ EM International ISSN 0971-765X
11. R.Premasudha, R.N.Uma, Dr.Meiaraj, "Assesment of soil characterisitcs around Municipal solid waste disposal site in Sulur-block – Coimbatore town panchayats-Tamilnadu, India", International Journal of Scientific and Engineering Research, Volume 5, 2014.

12. Shanmugapriya T, Uma RN and Meiaraj C 2014, "Influence of Manufactured Sand as Fine Aggregate on Strength Properties of High Performance Concrete", International Journal of Earth science and Engineering, Vol 07, No. 04 , pp.1470-1475 (Annexure II)
13. R.Premudha, R. N. Uma, Dr. C. Meiaraj , "Adverse impact on soil & ground water due to solid waste open dump in Coimbatore Town Panchayats", International Journal of Chemical Science: 13(1), 2015, pp-376-388.
14. S.Karthiyayini, R.N.Uma, "Study and Optimization Model for Integrated Municipal Solid Waste Management in South Zone of Coimbatore", International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 19 (2015).
15. Thenmozhi.R and Uma.R.N, "Treatment of dairy waste water using biodegradable materials in USAB reactor and measuring biogas production", Asian Journal of Microbiology Biotechnology Environmental Science, Vol.17, No(1):2015:291-296
16. Shanmugapriya T, Uma RN 2015 & U.Gayathri 2015, " Flexural Behavior of Reinforced High Performance Concrete Beams with Manufactured Sand and Silica fume", International Journal of Innovative Research in Engineering Management, ISSN 2350-0557 Vol. 3 No.1, pp. 121-126.
17. Shanmugapriya T, Uma RN 2015, "Strength and Durability Studies on High Performance Concrete With Manufactured Sand as Fine Aggregate", International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.2, pp. 1919-1924
18. Shanmugapriya T, Uma RN , Sathish Raja K, Kaveen S 2015, "A Characteristic Study of High Performance Concrete with Silica Fume and M-Sand", International Journal of Applied Engineering Research, Vol. 10, No. 2 pp. 4929-4938. (Annexure II)
19. R, Thenmozhi and Dr.R.N.Uma (2015) "Feasibility Study of Dairy Waste Water Using UASB with Water Hyacinth and Poultry Litter" International Journal of Innovative Research in Engineering Management, ISSN 2350-0557 Vol. 3 No.1, Pp. 117-120.
20. R. Premudha, R.N. Uma & K. Murali, " Hydro-chemical characterization of ground water quality due to municipal solid waste dumping at Vellalore and Coimbatore, Tamil Nadu, India" International Journal of earth Sciences & Engineering, Vol. 8, No. 4, pp-1791-1798, 2015
21. K.Murali, R.N. Uma & C. F. Jerin, "Statistical analysis of ground water quality parameters in Coimbatore South Taluk, Tamil Nadu, India" International Journal of earth Sciences & Engineering, Vol. 8, No. 4, pp-1767-1772.

22. R. Premsudha, R.N. Uma, K. Murali & Meiaraj “Assessment of Ground water quality using WQI method around Vellore municipal Solid waste disposal site in Coimbatore, Tamilnadu, India” International Journal of Chemical science, Vol. 14, No. 1, pp-229-243, 2016

International Conferences:

1. Bio degradation of fruit waste & aerobic composting in Third International Conference on Environmental and Health at Madras University, Chennai during Dec15 to 17,2003 Pp 201.
2. High Performance Concrete for Sustainable Development with Influence of Silica Fume and M-sand in International Conference on Emerging Green technologies during 27 -30th July 2011 at Periyarmaniammai University, Tirchy.
3. Adverse Impact on Soil and Water due to Solid waste Dump in Coimbatore town Panchayats, in International Society of Waste Management, Air and Water,International Conference on IconSWM at Javapudur University, Calcutta, Oxford Publishing House. Sustainable Waste Management (2011) 741 – 747.
4. Published paper on “Mechanical and Durability properties of High Performance Concrete containing Silica Fume and M-sand”, in the International FIB Congress 2014, on Improving Performance of Concrete Structures” at Mumbai, 10 -14th February 2014.
5. 5. Shanmugapriya T, Uma RN Durability studies of High Performance Concrete incorporating Manufactured Sand as fine aggregate in the International Conference on Advanced Engineering and Technology for sustainable development” at Karpagam College of Engineering on 5th and 6th March 2015.
6. Shanmugapriya T, **Uma RN** “Durability Properties of High Performance Concrete with Manufactured Sand” in the International Conference on Sustainable Energy and Built environment” at VIT University on 12th and 13th March 2015.

National Conferences:

1. Solid Waste Management – a case study for Coimbatore in **ENVIRO a National Conference** 2001 on control of Industrial Pollution and Environmental Degradation ,Sep 14th -15th ,2001 at **PSG Tech, Coimbatore** , Pp 416-420

2. "Effect on soil due to Industrial and Municipal Waste – A case study" in Proceedings of National conference on Pollution Control and Industrial Ecology during 2002 at Thiagarajar College of Engineering, Madurai. Pp 170 -176
3. Rain Water Harvesting inside V.L.B. College campus- A case study in News bulletin in Association of Consulting Civil Engineers, India. Coimbatore Centre.
4. Experimental studies on bio degradation of different organic waste-aerobic composting in **National symposium** on strategies for sustainable planning and management of Industrial ecology at **KCT, Coimbatore**, during March 8 to 9 2003 Pp 70 to 80.
5. Solid Waste Management in news bullet in **Association of Consulting Civil Engineers (India)**, Coimbatore centre volume -2 Pp 1-6.
6. Kinetic analysis of aerobic composting of municipal solid waste in **National Conference** on frontiers in environmental sciences and Engg. In INDIA **Bharathiyar university**, Coimbatore during Sep-15-17, 2005.
7. Environment impact assessment on ground water 'in **National seminar** on Recent Advances in Water Resources Planning and Management, at **Annamalai University** during March 8-9 2009. Pp B53.
8. Impact on ground water due to Solid waste dump in Coimbatore city in **National Conference** on recent advancement in civil Engineering during April 28, 2009 at **Sengunthur Engineering College** ,Thiruchengode.Pp 379-387.
9. Study of soil and water characteristics of solid waste dump yard in Coimbatore city in **National Conference** on Emerging Trends in Civil Engineering during Feb 23 ,2010 at **K.S.R College** of Technology , Thiruchengode, Pp256-264
10. Utilization of food waste into organic manure by vermicomposting in **National Conference on Environmental Pollution** during March 31, 2010 at **Karunya University**, Coimbatore.
11. "Experimental Investigation on High Performance Concrete using Silica Fume and super Plasticizer" in the **National Conference** on Futuristic of Concrete at **Karunya University**, Coimbatore . 20th July **2013**.
12. Published paper on "Anarobic digestion of Dairy Waste Water Using Water Hyacinth and Cowdung in UASB reactor" in the **National Conference** on Frontier Applications in Civil & Environmental engineering on 24 & 25 February 2014 at **Coimbatore Institute of Technology**, Coimbatore.

13. Shanmugapriya T, Uma RN “Flexural Behavior of reinforced High Performance concrete beams with Manufactured sand and silica fume” in the **National Conference** on Sustainable Civil Engineering practices” at PSG College of Technology, on 14th May 2015.

Books Published:

1. Authored a book ‘**Principles of Environmental Science and Engineering**’ Published by M/s Chand & Co.
2. Environmental Engineering Laboratory Manual.
3. Question bank with answers of Anna University question papers for Environmental Engineering subject, published by Jai publishers, Erode.

Seminar, Conference, Workshop Organized:

S.No.	Title	Duration	Level (Intern./ National)
	Seminar in ENVO-VISION 2004, at VLB Janakiammal College of Technology of, , jointly with PWD Environmental Cell Division, TamilNadu Government and acted as coordinator.	March 19 th , 2004	National
	Workshop in Environmental & Quality Management, at VLB Janakiammal College of Technology of. Jointly with PWD Environmental Cell Division, Tamil nadu Government and Roots Group of Industries and acted as coordinator.	August 9 th , 2004	National
	Organized a National Conference in ‘Frontline Areas of Civil Engineering’, NCFACE 06, sponsored by Institute of Engineers, ACCE (E), BAI and acted as	28 & 29 th of April 2006	National

	organizing secretary.		
	Organized a National Conference in 'Innovative Practices for Sustainable Energy and Waste Management' in collaboration with South Dakota School of Mines & Technology, USA, as convener.	27 & 28 th April 2007	National
	Organized a one day workshop on Water Resource Development and Environmental Management on jointly with PWD Environmental Cell Division – WRO, Coimbatore as convener.	4.10.2007	National
	Organized a two days Seminar in Innovative Construction Materials at SRIT.	January 20 & 21, 2010	National
	Organized a National Conference in 'Frontline Areas of Civil Engineering', NCFACE 06, sponsored by Institute of Engineers, ACCE (E), BAI and acted as organizing secretary.	28 & 29 th of April 2006	National
	Organized a two days practical training on Total Station.	October 11 & 12 th , 2010.	National
	Organized a two days AICTE sponsored National Seminar in Recent Advancement in Earthquake Resistance Structures.	9 th August 2008.	National
	Organized a seminar on 'Disaster – Causes Prevention & Preparedness' sponsored by Ministry of Earth Science.	24 & 25 th February, 2011.	National

	Organized a National Conference in 'Innovative Practices in Construction & Waste Management'.		National
	Organized National Seminar on Ground Improvement Techniques sponsored by Ministry of Earth Science at Sri Ramakrishna Institute of Technology, Coimbatore -10.	20 & 21 February 2011.	National
	Organized National Seminar on Integrated and Sustainable Water Resources Management sponsored by Ministry of Earth Science at Sri Ramakrishna Institute of Technology, Coimbatore -10 during	5 & 6 January 2012.	National
	Organized National Seminar on Impact of Climate Change and Adaptation to Environment jointly with Environmental Cell Division PWD, Water Resource Department Coimbatore at Sri Ramakrishna Institute of Technology, Coimbatore - 10 th	One day -October 2012	National
	15. Organized two days National Conference on 'Innovative Practices in Construction & Waste Management' sponsored by CSIR, New Delhi and Indian Society for Technical Education (ISTE)	3 rd and 4 th April, 2013.	National
	Organized National Seminar on "Innovative Practices in Construction	two days	National

	and Engineering		
	Organized two days Workshop on Cost effective Construction on Brick work.	13 th and 14 th March 2014.	National
	Organized a National Seminar on Importance of Geotechnical Investigation for CIVIL Engineering Projects.	September 2014.	National
	Organized Workshop on Structural design using ETABS	One Day -February 2015	National
	Organized a National Seminar on Modern Trends in Foundation Engineering	One day -March 2015.	National
	Organized workshop on India's Biggest Bridge Design	Two days - March 2015.	National
	Organized a National Conference on Innovative Practices in Construction & Waste Management.	Two days - April 2015.	National
	Organized two days Workshop on Cost effective Construction on Brick work	Two days -13 th and 14 th March 2014.	National
	Organized a National Seminar on Importance of Geotechnical Investigation for CIVIL Engineering Projects	One days - September 2014.	National

Seminar, Conference, Workshop Attended:

1. National symposium on “Strategies for Sustainable Planning and Management of Industrial Ecology” at Kumaraguru College of Technology, Coimbatore on 7th & 8th of March 2003.
2. National level Work shop on Recent Trends in environment Activities on Protection of Water Resources at GCT, coimbatore-13 , on 12th March 2003.
3. Indian Environment Congress – 2003 on “March Towards Green Earth” at Karpagam Educational Institutions, Coimbatore during 20th & 21st December 2003.
4. One day seminar on Environment for future generations at V.L.B.Janakiammal College of Engineering and Technology, Coimbatore on 19th March 2004.
5. Two days Seminar on ‘Environmental Management in Construction industries for Water Resources Development at GCT, coimbatore-13, during 27th to 28th of February 2004.
6. One day Seminar on ‘ Sensitization Programme on Technology Development & utilization Programme for Women at PSG College of Technology, Coimbatore on 10th of January 2008 Organized by Department of Scientific & Industrial research Ministry of Science & Technology.
7. Two days summit on Regional Summit on Quality in education at hotel residency on 29-30 Jan 2009, organized by CII INSTITUTE OF QUALITY.
8. Training on Disaster Risk Management Program at GCT, coimbatore-13 on 2-17th Dec 2009.
9. One day Seminar Dr.V. Ramakrishnan Endowersment Lecture at PSG College of Technology, Coimbatore on Jan 06, 2010.
10. One day Session on leveraging accreditation for assuring quality in HEI on Sep’09 2011 at Hotel The Residency, Coimbatore.
11. One day Interaction meeting in the Industry Academia Interaction, held on 23rd January 2012 at Taj Veenta, Coimbatore conducted by Coimbatore Builders and Contractors associates.
12. Two week ISTE workshop on Engineering Mechanics, SRIT, Coimbatore, 26th November to 6th December 2013.
13. Two weeks ISTE workshop on “FLUID MECHANICS” conducted by IIT, Kharagpur, through ICT (MHRD) at SRIT, CBE, from 20 to 30 may 2014.

14. Participated in short course on Environmental Engineering and Laboratory practices conducted in Technical Teachers Training Institute, Chennai from 10-2-2003 to 14-2-2003.
15. Attended Summer school on “Emerging Trends in Engineering & Science” from 19.05.2003 to 01.06.2003 at Government College of Technology, Coimbatore.

Ph.D., Guidance / Supervisor ship:

Name of Scholar	Course	Area of Research	Status
R.PREM SUDHA	CIVIL ENGINEERING	Environmental Engineering	Synopsis Submitted
R.THENMOZHI	CIVIL ENGINEERING	Environmental Engineering	Work in progress
T.SHANMUAPRIYA	CIVIL ENGINEERING	Construction Materials	Thesis submitted

Guest Lectures Delivered:

Topic	Institution	Date(s)
Delivered a lecture on Green Buildings	National Level Technical Symposium-INNOWAR-2K14-SVS College of Engineering, Coimbatore	21.02.14
Delivered a lecture on Integrated Waste Management	Short term training programme sponsored by ISTE, New Delhi and SRM University, Chennai on at Excel College of Technology, Coimbatore.	26 th March 2013
Delivered a lecture on Solutions for MSW Management problems in India.	National Seminar sponsored by CSIR on at EASA College of Engineering and Technology, Coimbatore	8 th March 2013

Delivered a lecture on Ozone layer depletion	WRD, PWD, and Coimbatore.	15 th September 2012
Delivered a lecture on Vulnerability study of ground water for Coimbatore south taluk, Coimbatore district using drastic approach.	Integrated and Sustainable Water Resources Management organised by Sri Ramakrishna Institute of Technology, Coimbatore -10	
Delivered a lecture on Developments in concrete.	Staff Development Programme at Sri Ramakrishna Institute of Technology, Coimbatore	
Delivered a lecture on Green concrete in Faculty Development Program on 'Modern concrete and concreting methods'	Easa College of Engineering and Technology, Coimbatore.	May 31 st to June 13, 2010.
Delivered a lecture on Earthquake preparedness and responses.	Training on Disaster Risk Management Programme	2-17, December, 2009.
Delivered a lecture on 'Energy from solid waste'	VLBJCET, Coimbatore – 42	23.03.2005
Delivered a special lecture on 'Municipal solid waste'	PSGR. Krishnammal College for women, Coimbatore	22.09.2004.
Delivered a lecture on 'Solid waste disposal techniques'.	Institution of Engineers (India), Coimbatore local center, Programme at PSG College of Technology	23.02.2004

Membership in Professional Bodies:

1. Life Member : Indian Society for Technical Education
2. Life Member : Indian Association Of Environmental Management
3. Life Member : Association Of Solid Waste Management India
4. Life Member : Indian Geotechnical Society (IGS)

Contributions to the Institution, Department and Society:

1. Actively participating in the developmental activities of the department to make Civil Engineering department globally visible and working towards attaining the vision and mission of the department.
2. As the Head of the department the day today activities of the department are monitored, and running the department upto the expectation of the Principal.
3. Motivating the faculty members and students to work jointly with great effort for improving the status of the department and to add credit to the department in all possible ways.
4. Acting as Associate warden for girls and boys hostel and helps the hostel administration in overcoming the issues of the inmates.
5. Also acting as chairperson of various committees such as Women empowerment cell, Internal compliance committee, Redressal and Review committee and Anti-Ragging committee.

Awards and Recognitions:

1. Acting as Board of Studies member in Civil Engineering for Anna University and Karpagam University, Coimbatore.
2. Serving as a supervisor for guiding research scholars for Ph.D programme for four students, under Anna University of Technology, Coimbatore.
3. Acting as Chief Superintendent for Anna University Examinations.
4. Acting as External Audit member for school of Civil Engineering, Karunya University, Coimbatore.
5. Acted as chairperson for a session in the International Conference, "Innovations and Advances in Civil Engineering towards Green & Sustainable Systems" on 28,29 & 30 April 2014 at Coimbatore Institute of Technology, Coimbatore.
6. Best Teacher Award by Alumni Association of Sri Ramakrishna Institute of Technology.