



**Dr.G. Venkatesan**

**Assistant Professor (Sr.Gr)**

**Department of Civil Engineering  
University College of Engineering Tiruchirapalli  
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**Ph.D. Thesis Title** : Comparative studies on clay liner with and without microsilica, in permeation of Municipal

**Research Interest:** Solid waste management, Environmental Geotechniques, landfill design ,  
Structural Engineering and Water management techniques

**Educational Qualifications: M.E, Ph.D. in Civil Engineering**

Ph.D. (2004-2010) : Environmental Geotechnics, National Institute of Technology Tiruchirappalli.

M.E. (2000 -2003) : Water Resources Engineering and Management, Regional Engineering College  
Tiruchirappalli.Bharathidasan University, Tiruchirappalli.

B .E (1989 -1993) : Civil Engineering, Kongu Engineering College, Bharathiyar University, Coimbatore.

solid waste leachate.Under Guidance of *Dr.G. Swaminathan (20.02.2010)*

**M.E Thesis Title** : Water Management study for rice crop using staggered growing seasons under Guidance  
of *Prof.S.Krishnamoorthi*

**Academic Achievements:**

- ❖ Scored 100% in Mechanics of Solids - I in Degree level
- ❖ Scored 100% in Mathematics in SSLC

**Languages known** : Tamil, English, Hindi and Telugu.

**Professional Experience: 23 Years (18 Years for Teaching, Research Experience and 5 years site work and  
Industry experience)**

Assistant Professor(Sr.Gr)	: University College of Engineering Tiruchirappalli (BIT Campus),Anna University, 2015– Present
Assistant Professor	: University College of Engineering Tiruchirappalli (BIT Campus),Anna University, 2009– 2015.
Assistant Professor	: SASTRA University,Thanjavur, 2006 –2009.
TEQIP Research Scholar	: National Institute of TechnologyTiruchirappalli, 2005 –2006.
Research Associate	: National Institute of TechnologyTiruchirappalli, 2002 –2005.
Project Associate	: National Institute of TechnologyTiruchirappalli, 2001 –2002.
Application Assistant	: Geo Info Labs, Pondicherry,2000-2001
Junior Engineer	: Sathipal( India) Ltd , Chennai,1998 –1999.
Site Engineer	: Span Constructions & Designs (P) Ltd,Chennai 1996 –1997
Appetence Trainee	: Public Works Department, Mettur Dam 1994 –1995
Site Engineer	: PWD Contractor Mettur Dam 1993 –1994

#### **Awards:5**

1. **Vishwakarma Award** for the category of *Academician* for the year 2017 organized by Construction Industry Development Council (CIDC),Government of India on 7.3.17.
2. **Rashtriya Gaurav Award Outstanding achieves and Services** for the year 2015 by the by India International friendship society New Delhi on 15.4.15
3. **Ground water Expert** published in directory of ground water professionals, Central Ground Water Board, Ministry of Water Resources December 2014 to till date.
4. **Best research paper award on Environmental Issues in the Department of Environment, Government of Tamil Nadu** state award for the year of 2012 on 05.06.2013.
5. **Certificate of Recognition** from Eco city builders USA for presentation of Eco city conference 2006.

#### **Professional Activities and Recognition: 10**

1. **IPHE council Member** of Institution of Public health Engineers, India for the year of 2012 to 2018.
2. Presented on 'Permeable reactive barrier ' **Brain Storming Session on Environmental Geotechnics**' held on January 24-25, 2017, at Goa Organized by Department of Civil Engineering, Indian Institute of Technology Bombay, Mumbai, under the aegis of Science and Engineering Research Board (SERB), Department of Science and Technology (DST) India.

3. **IGS Trichy Chapter Executive committee member of** Indian Geotechnical Society, from 2.10.16 to till date.
4. **IGS Trichy Chapter Founder Secretary**, Indian Geotechnical Society, from 14.2.2014 to 1.10.16.
5. **Member in Environmental and Water Resources Systems Committee**, American Society of Civil Engineers from December 2005 to till date
6. **Chartered Engineer** (AM 089348-2) in Institution of Engineers (India), Kolkatta, from 14.01.2005 to till date.
7. **Outstanding contributions as a reviewer** for Environmental Monitoring and Assessment, Springer publication, 10<sup>th</sup> July 2013.
8. **Certificate of Appreciation** for producing hundred percentage result in the Landfill Engineering and Remediation Technology for the academic year 2018-2019
9. **Member** in Network of Expert and Resources for Subsurface Investigations and Remediation of Contaminated Sites (NERCS) sponsored by MoEF&CC at IIT Delhi,
10. **Lead Auditor** in ISO 14001:2015 Environmental Management system.
11. **Technical Expert** in National Accreditation Board for Testing and Calibration Laboratories (NABL).
12. **Tamil translation** of technical terms in Energy Conservation Building code (ECBC) Tamilnadu Building Cell Department.
13. **Primary Evaluator** In Toyathon 2021 organized by Ministry of Education's Innovation Cell and AICTE

## PUBLICATIONS :

### Website:

Google Scholar	: <a href="https://scholar.google.co.in/citations?user=roiWnRUAAAAJ&amp;hl=en&amp;authuser=4">https://scholar.google.co.in/citations?user=roiWnRUAAAAJ&amp;hl=en&amp;authuser=4</a>
Research gate	: <a href="http://www.researchgate.net/profile/Venkatesan_Govindan4">http://www.researchgate.net/profile/Venkatesan_Govindan4</a>
academia.edu	: <a href="https://annauniv.academia.edu/VenkatesanGovindan">https://annauniv.academia.edu/VenkatesanGovindan</a>
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<u>ResearcherID</u>	: <u>M-3232-2014</u>
Research ID	: <a href="https://publons.com/researcher/452717/venkatesan-govindan/">https://publons.com/researcher/452717/venkatesan-govindan/</a>
Twitter	: <a href="https://twitter.com/venki@gvenkat2018"><b>venki@gvenkat2018</b></a>
Kudos	: <a href="https://www.growkudos.com/hub/133400/publications">https://www.growkudos.com/hub/133400/publications</a>
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Mendeley	: <a href="https://www.mendeley.com/settings/account/">https://www.mendeley.com/settings/account/</a>
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## Publication in Journals– 53

### Publication in Refereed journals–37

1. Saravanakumar M, Venkatesan G Analysis on tire derivate aggregate in mortar and concrete for manufacturing applications. ***The International Journal of Advanced Manufacturing Technology*** 130, 3229–3243 (2024). <https://doi.org/10.1007/s00170-023-11488-w>. (Impact factor: 3.4, H index: 145.).
2. R. Anjali and G. Venkatesan (2022) : Optimization of mechanical properties and composition of M-sand and pet particle added concrete using hybrid deep neural network-horse herd optimization algorithm, ***Construction and Building Materials***, Volume 347, 128334, ISSN 0950-0618. (Impact factor: 7.693, H index: 198. Citation:5)
3. S. Pauline and G. Venkatesan (2022): Influence of Chemical, Electrochemical Exfoliation, Hydrophilic, and Hydrophobic Binder on the Sorption Capacity of Graphene in Capacitive Deionization, ***Journal of Environmental Engineering***, American Society of Civil Engineers, DOI: 10.1061/(ASCE)EE.1943-7870.0001999. , 2022, 148(7): 04022033, ISSN (print): 0733-9372 | ISSN (online): 1943-7870 (Impact factor: 2.22, H index: 98, Citation:5 )
4. J. Vijayaraghavan, R. Jeevakkumar, G. Venkatesan, M. Rengasamy, J. Thivya, (2022) : Influence of kaolin and dolomite as filler on bond strength of polyurethane coated reinforcement concrete, ***Construction and Building Materials***, Volume 325, 126675, ISSN 0950-0618. (Impact factor: 6.141,H index: 198,, Citation:22
5. R. Gopinath , Jessy Rooby and , Venkatesan, G (2021) : Influence of groundwater quality on human health and its suitability for drinking and irrigation uses: a review. ***International Journal of Environmental Analytical Chemistry***. 1-19. 10.1080/03067319.2021.1982922. (Impact factor: 2.826,H index:42 )
6. Tamilmani and G. Venkatesan(2021) : Assessment of trace metals and its pollution load indicators in water and sediments between Upper and Grand Anicuts in the Cauvery , ***International Journal of Environmental Science and Technology*** 18:3807–3818 , <https://doi.org/10.1007/s13762-020-03034-y>, ISSN : 1735-1472 (Impact factor: 2.74,H index:75, Citation:8)

7. Thirumal.J , Kaliappan.S , Usha Kingsly Devi .K and Venkatesan .G . (2021) : Kinetics and Modeling of Perchlorate Biodegradation using Dechlorosoma Sp, ***Tierärztliche Praxis***, Vol 41, 2021 ,696-709 ISSN: 03036286, (**Impact factor: 0.102,H index:2**)
8. S M.Kavitha, Venkatesan, G.,S. Siva, A and Erick I. Saavedra Flores. (2020) : Mechanical and flexural performance of self compacting concrete with natural fiber, ***Revista de la Construcción*** 19(2):370-380, <https://dx.doi.org/10.7764/rdlc.19.2.370>, ISSN 07177925 (**Impact factor: 0.95,H index:11, Citation:8**)
9. S .Saravanan, Pitchaikani, S. and Venkatesan, G (2020). Assessment and evaluation of groundwater vulnerability index maps of Upper Palar River Basin, Tamilnadu, India. ***Journal of Earth System Science*** 129:162,1-13). <https://doi.org/10.1007/s12040-020-01425-w>, ISSN: 23474327 (**Impact factor: 1.42, H index:52, Citation:4**)
10. S. Sujatha, G. Venkatesan and R. Sivarethnamohan (2020): Optimization of lead removal in exhausting *Manilkara zapota* based activated carbon: application of response surface methodology, ***Environmental Technology***, 41:19, 2478-2493 ,DOI: 10.1080/09593330.2019.1570347 Published online by Taylor & Francis ISSN: 0959-3330 (**Impact factor: 1.666, H index:73, Citation:6**) .
11. Venkatesan, G., Pitchaikani, S. and Saravanan, S. (2019) : Assessment of Groundwater Vulnerability Using GIS and DRASTIC for Upper Palar River Basin, Tamil Nadu. ***Journal of the Geological Society of India*** 94, 387–394 <https://doi.org/10.1007/s12594-019-1326-2>, ISSN: 00167622 (**Impact factor: 1.459, H index:44, Citation:25**)
12. S. Pauline and G. Venkatesan (2019): Influence of solvent and its concentration on binding 5ournals with substrate in electric double layer capacitance, ***Desalination and water treatment***, DOI: 10.5004/dwt.2019.23707 , 145(2019)134-142, ISSN Print 1944-3994, ISSN Online 1944-3986 (**Impact factor: 1.234, H index:60, Citation:1**)
13. S. Gopinathan and G. Venkatesan (2018): Analyze the Environmental Combine Effect of Graphene Oxide and Rice Husk Ash in Concrete Properties, ***Ekoloji*** 27(106): 913-924 ,ISSN: 1300-1361 (**Impact factor: 0.923, H index:20**)
14. Venkatesan, G., Senthil, M. S. (2018). Groundwater quality mapping using geographic information system in Trichy district, Tamil Nadu, India. ***Water Science and Technology: Water Supply***. Doi:10.2166/ws.2018.041. Published by IWA Publishing Vol 18 (6): 2118-2132 ISSN: 1606-9749 (**Impact factor: 0.674, H index:33, Citation:4**)
15. M.S. Senthil, G. Venkatesan, U. Surendran and V. Kumar ( 2018) , “Long term rainfall analysis and climatic water balance for Pudukkottai, a semi-arid region of Tamil nadu, India” ***Ecology, Environment and Conservation***. Published by EM international Vol 24, Feb. Suppl. Issue 2018; Page No.235-240 ISSN: 0971-765X (**Impact factor: 0.11, H index:11**)
16. S. Lakshmi Narayanan, G.Venkatesan and I. Vetha Potheher ( 2018) , “Equilibrium studies on removal of lead (II) ions from aqueous solution by adsorption using modified red mud” ***International Journal of Environmental Science and Technology***. Published by Springer nature Vol. 15, NO. 8, 1687-1698 ( DOI: 10.1007/S 13762-017-1513X, ISSN : 1735-1472 (**Impact factor: 2.74,H index:75, Citation:30**)

17. G.Venkatesan and S. Lakshmi Narayanan (2018) "Synthesis of Fe<sub>2</sub>O<sub>3</sub> Coated and HCl Treated Bauxite Ore Waste for the Adsorption of Arsenic (III) from Aqueous Solution: Isotherm and Kinetic model ", ***Chemical Engineering Communications*** published by Taylor & Francis., Vol. 205, NO. 1, 34–46. DOI 10.1080/00986445.2017.1370708., ISSN: ISSN 00986445, 15635201 , ( **Impact Factor: 1.297, H Index: 38, Citation:16**).
18. S. Lakshmi Narayanan, G.Venkatesan and G. Swaminathan(2017), "Experimental studies on adsorption of Chromium (VI) and Arsenic (III) using residue red mud in effective manner" ***Ecology Environment and Conservation***. Vol.23, September, PP. 32-40. ISSN: 0971-765X (DOI [http://dx.doi.org/10.15666/aeer/1503\\_17171737](http://dx.doi.org/10.15666/aeer/1503_17171737), ISSN 0971765X , ( **Impact Factor: 0.12, H Index:10, Citation:2**).
19. S.Sujatha, Venkatesan.G and Sivarethnamohan. R (2017) "Principal determinants of toxicity reduction by de-oiled soya using multivariate statistics: principal component analysis and multiple linear regression analysis", ***Applied Ecology and Environmental Research*** , Vol. 15(3):1717-1737(**Impact Factor: 0.50, H Index: 21, Citation:9**).
20. R. Suchithra, G.Venkatesanand N.Ilavarasan(2016) , Watershed Impact Assessment using remote sensing and GIS application, ***Indian Journal of Environment Protection, India*** ,Vol. 36(5) , , pp408-411. (**Impact Factor: 0.3,H Index: 13**)
21. G. Venkatesan, V. Rajagopalan, B.K. Ramesh, K. Arokiyadoss, Arun Jesudoss,C. Shanmugasundaram and N. Sridhar (2016),"Feasibility Study on Construction of Sewage Treatment Plant at College Campus", ***Asian Journal of Water, Environment and Pollution*** Vol. 13, No. 4 (2016), pp. 83–87. (**Impact Factor: 0.13, H Index: 3** ).
22. G. Venkatesan, G. Elangovan and K. Bhuvaneshwari (2016), "Experimental studies on removal of nickel using foundry sand ", ***Journal of Environmental Biology (2016) Vol13:1123–1130*** (**Impact Factor: 0.67, H Index: 28, Citation:2**)
23. Venkatesan.G. and Rajagopalan V (2016), "Adsorption kinetic models for the removal of Cu(II) from aqueous solution by clay liners in landfills ", ***International Journal of Environmental Science and Technology*** , 1735-1472 Vol 13, 4 April ,pp 1123–1130(**Impact Factor: 2.19, H Index: 40, Citation:11**)
24. RajagopalanV ,Venkatesan.G and G. Swaminathan. (2016), "Removal of Copper Using Clay Admixed with Quarry Fines as Landfill Liners ", ***Polish Journal of Environmental Studies***. Vol. 25, No. 1 (2016), 377-384. (**Impact Factor: 0.871, H Index: 30 Citation: 7**)
25. Venkatesan.G. and V .Rajagopalan and M.Selvaraj (2014), "Groundwater Quality Assessment around Tanneries at Tiruchirappalli, India", ***Asian Journal of Water, Environment and Pollution***, Vol. 11, No.4, pp51-57(**Impact Factor: 0.15, H Index: 5**)
26. G.Venkatesan,U.Senthilnathan and ShameelaRajam(2014), "Cadmium removal from aqueous solutions using hybrid eucalyptus wood based activated carbon: adsorption batch studies", ***Clean Technologies and***

- Environmental policy***. Springer Nature,1618-954X, Vol. 16, Issue 1, pp. 195-200. (**Impact Factor: 1.827, H Index: 33,Citation: 39**)
27. Rajagopalan.V and G.venkatesan (2013), “Experimental Analysis to Utilize the Solid Wastes in Brick Production”, ***Journal of Environmental Science and Engineering***. Vol. 55, No. 3, p. 343-350,( **Impact Factor: 0.12,H Index: 13 ,Citation: 3**).
  28. U.Senthilnathan and G.Venkatesan (2013), “Removal of chromium using derris indica wood based activated carbon – adsorption batch studies”, ***Environment Protection Engineering*** Vol. 39, No.3,pp. 21-29.( **Impact Factor: 0.28, H Index: 14,Citation: 5**).
  29. Venkatesan.G,B. Balaji, S. Dhivyabharathi, K.S.S. Lidhuveniya and F. Sylvester Martin (2013), “Water Quality Assessment in Tiruchirappalli, India “, ***Asian journal of Water, Environment and Pollution***Vol. 10, No.4, pp. 33-42. (**Impact Factor: 0.15, H Index: 5**).
  30. G.Venkatesan and U.Senthilnathan(2013), “Adsorption batch studies on the removal of cadmium using wood of derris indica based activated carbon”, ***Research journal of Chemistry and Environment***. Vol. 17 (5), pp. 19-24(**Impact Factor: 0.14, H Index: 11, Citation: 15**).
  31. Venkatesan.G., G. Swaminathan and R. Nagarajan (2013) , “Study on groundwater quality in and around solid waste landfill site at Tiruchirappalli, Tamil Nadu, India, ***International Journal of Environmental Engineering***, Vol. 5, Nos. 2, pp. 179-196.( **ISSN print: 1756-8463 , H Index: 6, Citation: 6**)
  32. Venkatesan, G., G Swaminathan, and Srihari, V (2012), “Assessment of microsilica as a value-added material for municipal solid waste clay liner system”, ***International Journal of Environment and Waste Management***, Vol. 10, Nos. 2/3, pp. 321-330(**Best paper awarded by Department of Environment, Government of Tamil Nadu, India. (Impact Factor: 0.18 H Index: 12)**).
  33. Venkatesan. G and G. Swaminathan (2009), Review of chloride and sulphate attenuation in ground water nearby solid-waste landfill sites, ***Journal of Environmental Engineering and landscape management***. , Vol. 17, No. 1, pp. 1a-1g,doi: 10.3846/1648-6897.2009.17.1a-1g (**Impact Factor: 1.958, H Index: 20, Citation:38**).
  34. Venkatesan.G and G. Swaminathan (2009) , Laboratory studies on unconfined compressive strength of solid waste landfill liner material, ***International Journal of Applied Engineering Research***. Vol.4, No. 7, pp. 1197-1205.( **Impact Factor: 1.958, H Index: 13 ,Citation:0.15,Citation:2**)
  35. Venkatesan.G,N.Venkatkumar, M.Tamilselvam, G. Swaminathan and S.Krishnamoorthi (2008), Field laboratory studies on short term paddy crop in semi arid region, ***Asian Journal of Water, Environment and Pollution***. Vol. 5, No.1, pp37-43.( **Impact Factor: 0.15, H Index: 5**)
  36. Venkatesan.G , M.Tamilselvam, G. Swaminathan and S.Krishnamoorthi(2005), Water Management Techniques in Medium Term Rice Crop, ***International journal of Ecology & Development***, Vol. 3, No. F05, pp 90-100 (**Impact Factor: 0.29, H Index: 6, Citation:1**).

37. Venkatesan.G ,M.Tamilselvam, G. Swaminathan and S.Krishnamoorthi (2005), Effect of water stress on yield of rice crop, *International journal of Ecology & Development*, Vol. 3, No. F05, pp 77-89(**Impact Factor: 0.29, H Index: 6 ,Citation:5**).

#### **Publication in Non Refereed journals–17**

1. Venkatesan.G , R.Anjali , Bharat P. Kapgate and Rajkumar. K V. (2021): A feasibility study on rubberized concrete mortar cubes used in construction Industry , DOI: <https://doi.org/10.1016/j.matpr.2020.02.736>, *Materials Today: Proceedings, Elsevier publication*, 45 (2021) 677–688 ,ISSN: 22147853. (**Impact Factor: 0.29, H Index: 27 ,Citation:2**).
2. Venkatesan.G , M. Saravanakumar , Bharat P. Kapgate, Rajkumar. K V. and Sadayappan.V (2020): Application of Waste Tire in Concrete: A Review, DOI: <https://dx.doi.org/10.7492/IJAEC.2020.001>, *International Journal of Architecture, Engineering and Construction* , Vol 9, No 1, March 2020, 22020001, 1-12, ISSN: 1911-110X.
3. Venkatesan.G , R. Mithuna and S. Gandhimathi (2020): IOT based Monitoring of lab scale concitutive landfill mode of food waste DOI: <https://doi.org/10.1016/j.matpr.2020.01.273>, *Materials Today: Proceedings, Elsevier publication* , Vol 33, Part 7, 2665-2670, ISSN: 22147853. (**Impact Factor: 0.3, H Index: 27, Citation:9**).
4. Venkatesan.G , M. Saravanakumar , Bharat P. Kapgate and Rajkumar. K (2020): Laboratory studies on strength behavior of concrete added with tire derived products, **DOI:** <https://doi.org/10.1016/j.matpr.2020.01.273>, *Materials Today: Proceedings, Elsevier publication* , Vol 33, Part 7, 2665-2670, ISSN: 22147853. (**Impact Factor: 0.3, H Index: 27, Citation:6**).
5. Venkatesan.G , Bharat P. Kapgate and Rajkumar. K (2019): Experimental investigation on natural fiber along with silica fume in conventional concrete, **DOI: <https://doi.org/10.26524/sat1>**, *South Asian Journal of Engineering and Technology*, Vol 9 No 1 (2019): Vol 9, Iss 1, Year 2019,1-13 , E-ISSN: 2454-9614.
6. Anjali R and Venkatesan G (2019) , Mechanical Behaviour of Concrete Made with Fine Recycled Aggregate *International Journal of Advanced Research in Basic Engineering Sciences and Technology (IJARBEST)* , ISSN (ONLINE):2456-5717 **Vol.5, Issue.7, July 2019** , pp288-293.
7. Mohamed Usman , T.M.,Thirumal. J and Venkatesan. G (2018) , Treatment of fishery wastewater using aerobic granules in sequencing batch reactor, *Journal of the Institution of public health Engineers, India* ,Vol. XXXXV, No.4, pp31-35.



8. V. Rajagopalan , V, Thanammal and G.Venkatesan (2017) , Waste Water Reduction and Metal Recovery from Steel Plant Effluent, ***Journal of the Institution of public health Engineers, India*** ,Vol. XXXXV, No.3, pp34-39.
9. V. Rajagopalan and G.Venkatesan (2016) ,Geotechnical characterization of clay admixed with quarry fines as potential liner material, ***Journal of the Institution of public health Engineers, India*** ,Vol. XXXXIII , No.4, pp12-15..
10. Venkatesan. G and G. Swaminathan (2015) , “ Assessment of municipal solid waste clay liner system using consolidation test”, ***The Global Environmental Engineers***, Vol. 2, No.1, pp15-22.
11. G.Venkatesan and U.Senthilnathan(2014) , Column studies on removal of Cadmium ions from polluted water using wood of Derris indica based on activated carbon, ***Journal of the Institution of public health Engineers, India***Vol. 2014-2015, No.3, pp5-8
12. G. Venkatesan, and S.Thilagavathy(2014).”Environmental impact of municipal sewage at karaikudi municipality”, ***Journal of Indian Water Works Association*** ,Vol. XXXXVI, No. 1, pp. 372-375. ( ***H Index: 5***).
13. S. Lakshmi Narayanan, G.Venkatesan and C.Arunkumar (2013), “A batch studies on adsorption of Nickel (II) Using Redmud”, ***International Journal of Advanced Research*** , Vol. 1, Issue 9,pp. 465-472.
14. Ramesh Babu.C, G.Venkatesan and VigneshN.P(2013), “Analytical studies on distortional buckling of cold formed stainless steel columns”, ***International Journal of Civil Engineering and Building Materials***.Vol. 3, No2, pp. 67-79
15. Venkatesan. G Reghuraman.S and Chandra sekaran.M(2013) “Flexural behavior of reinforced concrete beams using high volume fly ash concrete confinement in compression zone”, ***Journal of civil engineering, The Institution of Engineers, Bangladesh***. Vol. 41, Issue 2, pp. 87-97.( ***Citation: 2 ,*** )
16. G. Elangovan and G. Venkatesan (2008) , Theoretical analysis of steel frame with lateral loading and friction dampers using ANSYS, ***International Journal of Material Science***, Vol 3, No. 2 , pp. 137–150.
17. Venkatesan. G,and G. Swaminathan (2008), Microsilica as novel admixture used as municipal solid waste landfill liner material, ***International Journal of Natural and Applied Sciences***, Vol.4, No. 2, pp. 124-130.( ***Citation:1*** )

#### **Publication in Conferences – 72**

#### **Publication in International Conferences – 33**

#### **Proceedings as Full Papers with ISSN Number-12**

1. Rajagopalan V,G.Venkatsan,S.Smilee and V.Nachiappan “Study of Micro plastic Abundance , Characterstic composition in Uyyakondan Canal, Tiruchirappalli ”, International Conference on Scenfific and Technological Advancements for Reliable and sustainable Future (STARS) -222 ,Organized by Bishop Hebbur College , TRIuchirappalli , pp 65-71, 16-18 November 2022.

2. Nithya.M. and G. Venkatesan, "Microbial degratio of pharmaceutical waste water by bacterial strains isolated from the effluent ", TEQIP II and CSIR Sponsored International Conference on Energy and Environmental systems (ICEES'17) , organized by Bharathidasn Institute of Technology , Tiruchirappalli, pp308-310, 10<sup>th</sup> and 12<sup>th</sup>March 2017.
3. S.Saranya and G. Venkatesan, "Potential utilisation of organic waste by using vermin composting ( Eudrilus Euginae)", TEQIP II and CSIR Sponsored International Conference on Energy and Environmental systems (ICEES'17) ,Organized organized by Bharathidasn Institute of Technology , Tiruchirappalli, pp322-326, 10<sup>th</sup> and 12<sup>th</sup>March 2017.
4. Vidhya V, K.Rakesh, G.Venkatesan and K.Jothivenkatachalam, " photocatalytic removal of organic pollutant from wastewater by using nanocomposite materials" TEQIP II and CSIR Sponsored International Conference on Energy and Environmental systems (ICEES'17) ,Organized organized by Bharathidasn Institute of Technology , Tiruchirappalli, pp340-343, 10<sup>th</sup> and 12<sup>th</sup>March 2017.
5. Rajagopalan Varadarajan,Venkatsan Govindan , "Isotherm study on the Equilibrium adsorption of Cadmium(II) from Aqueous solution by clay liner materials ", International Conference on Recent Developments in Civil and Environmental Engineering-16 ,Organized by Alagappa Chetiar college of Engineering and Technology , Karaikudi , pp69-76, 30<sup>th</sup> and 31<sup>st</sup> October 2016.
6. T.Maximelia and G. Venkatesan, "Sturtural inspection and proposal for retrofitting of a residential bulding", International conference (ICCMEET), SVS College of Engineering, Coimbatore, 84 26<sup>th</sup> and 27<sup>th</sup> February 2016.
7. S.Kanniga and G. Venkatesan, "Effect of Silica fume in slurry infiltrated fibrous concrete", International conference (ICCMEET), SVS College of Engineering, Coimbatore, pp82, 26<sup>th</sup> and 27<sup>th</sup> February 2016.
8. M. Maheswari, K. Rokesh,, G. Venkatesan and K. Jothivenkatachalam, "photocatalytic removal of toxic pollutant in effluent water by nanocomposite materials ", 2<sup>nd</sup> International conference on Advanced Engineering and Technology for sustainable development (ICAETSD) organized by the Department of Mechanical, Civil and Automobile Engineering held at Karpagam College of Engineering, Coimbatore, Tamilnadu, India on PP 110 -114, 19<sup>th</sup>and 20<sup>th</sup> February 2016
9. G.Venkatesan and S.Thilaagavathy, " Environmental Impact of municipal sewage waste at Karaikudi Municipality", International conference on Bio Energy , Environment and Sustainable Technologies (BEST -2013) organized byArunai Engineering College, Tiruvannamalai,pp35,27<sup>th</sup> to 30<sup>th</sup> January 2013 .
10. G.Venkatesan and S.Lakshmi Narayanan, " Review of study on Adsorption of Nickel by using Redmud", International conference on Bio Energy , Environment and Sustainable Technologies (BEST -2013) organized by Arunai Engineering College, Tiruvannamalai, organized Mr.R.Praveen kumar ,pp61, 27<sup>th</sup> to 30<sup>th</sup> January 2013 .
11. V .Rajagopalan, G. Venkatesan and R. Nagarajan,"Municipal Solid Waste Characteristics at Landfill in Tiruchirappalli, India",3<sup>rd</sup> International Conference (CUTSE 2011) Innovative Green Technology for Sustainable Management held at Curtin University, Sarawak, Malaysia, pp828 – 917, 8-9 8<sup>th</sup> and 9<sup>th</sup> November 2011.ISBN: 978-983-44482-2-6

12. V .Rajagopalan ,UshaNatesan and G. Venkatesan , “The pattern of seasonal sediment transport mechanisms around Arichaimunai by Sediment trend matrix (STM)”, Ninth international conference on Hydro-Science and Engineering, ICHE 2010, IIT Madras, Chennai, pp103, 2-5 August 2010.

### **Proceedings as Full Papers -21**

1. Sasidharan P.S, Syed Enayathali and Venkatesan G, “Study of treated effluent in sewage treatment plant in Tiruchirappalli ” International conference on restore our Earth ICORE-2021 (Virtual) organized by the PG& Research Development of Environmental sciences, Bishop Heber college, Tiruchirappalli , 21<sup>st</sup> and 22<sup>nd</sup> April 2021.
2. Sasidharan P.S, Syed Enayathali and Venkatesan G, “Effects on soil properties around sewage treatment plant in Tiruchirappalli ”, The international conference on Environment-Friendly Construction Materials, Methods and Systems, Government College of Technology, Coimbatore, 11<sup>th</sup> and 12<sup>th</sup> pp 189-202 March 2021.
3. S. Syed Enayathali and Venkatesan G, “Study and performance of an up flow Anaerobic sludge blanket reactor in the treatment of slaughter waste water ”, International conference on Recent advances in Civil and Mechanical Engineering (ICRACM’2020) , Sri Shakathi Institute of Engineering and Technology Coimbatore, 30<sup>th</sup> and 31<sup>st</sup> December 2020.
4. S. Anitha M. Rengasamy, M. Jeevakkumar and G. Venkatesan , Simultaneous electricity production and wastewater treatment from dairy industries 2<sup>nd</sup> International conference Innovations in thermal, Manufacturing, Structural and Environmental Engineering Organized by Kongunadu College of Engineering &Technology Trichy 23 May 2020.
5. G. Venkatesan and G. Swaminathan “Assessment of Microsilica as an Ameliorate Materials for Municipal Solid waste clay liner system-A Case study , Geoenvironment - 2020 Organized by Geotechnical and GeoEnvironmental Group , Civil Engineering Department , Indian Institute of Technology Delhi 17<sup>th</sup> to 19<sup>th</sup> February 2020.
6. S.Kavina, G. Venkatesan, and M.Sivakumar, “Column bed reactor for tannery wastewater treatment using scarp and rendering ferrochrome residue ”, First International conference Industry 4.0 and Advancements in Civil Engineering (i4ACE’19), PSG Institute of Technology and Applied Research , 21<sup>st</sup> to 23<sup>rd</sup> pp 326-332 March 2019.
7. G.Venkatesan, N.Meenakshi “An experimental investigation on strength of high performance concrete containing supplementary cementing material ” An International conference on recent trends in

Nanomaterials for Energy, Environmental and Engineering Applications organized by K.Ramakrishnan College of Technology , Tiruchirappalli held on pp14,15-17 March 2019.

8. C.Yogesh Prabu and G. Venkatesan, "studies on Partial Replacement of Clay by waste tire chips in Landfill Liner ", International Conference on Recent Trends in Mechanical and Civil Engineering ,Organized organized by Department of Mechanical and Civil Engineering, PET Engineering College, Vallioor pp49 ,4<sup>th</sup> April 2018.
9. T.Kumaresan and G. Venkatesan, "Removal of oil from wastewater using biosurfactant produced by bacillus species isolated from calcareous soil ", First International conference on sustainable developments in science Engineering Technology and Humanities (ICSETH-206), PSN Engineering college, Tirunelveli, 10<sup>th</sup> and 11<sup>th</sup>March 2016.
10. K. Mohamed Ismail and G. Venkatesan, "Current status and prospects of advanced oxidation processes", TEQIP II Sponsored International Conference on Environmental Geotechnics (ICEGEO'14) ,Organized organized by Bharathidasn Institute of Technology , Tiruchirappalli, pp 81-87, 30th and 31st October 2014.
11. S.Pitchaikani and G. Venkatesan, "Assessment of groundwater contamination transport modeling", TEQIP II Sponsored International Conference on Environmental Geotechnics (ICEGEO'14) ,Organized organized by Bharathidasn Institute of Technology , Tiruchirappalli, pp 258-269, 30th and 31st October 2014.
12. J.Sharmila, G.Venkatesan and D.Subasri , "Preliminary investigation on hydrogeochemical characteristics of groundwater in Thiruthuraiipoondi Taluk, Tamilnadu", TEQIP II Sponsored International Conference on Environmental Geotechnics (ICEGEO'14) ,Organized organized by Bharathidasn Institute of Technology , Tiruchirappalli, pp 270-274, 30th and 31st October 2014.
13. B.Aarthi and G. Venkatesan, "Environmental impact assessment of solid waste in Srirangam", TEQIP II Sponsored International Conference on Environmental Geotechnics (ICEGEO'14) ,Organized organized by Bharathidasn Institute of Technology , Tiruchirappalli, pp 298-301, 30th and 31st October 2014.
14. RajagopalanVaradarajan,VenkatesanGovindanandG.Swaminathan , "Removal of copper using clay admixed with quarry fines as a liners in landfills", TEQIP II Sponsored International Conference on Environmental Geotechnics (ICEGEO'14) ,Organized organized by Bharathidasn Institute of Technology , Tiruchirappalli, pp 324-331, 30th and 31st October 2014.
15. R. Suchithra, G. Venkatesan, A. Nithya and K.Jothivenkatachalam, "Advanced oxidation process for the removal of textile waste water", TEQIP II Sponsored International Conference on Environmental Geotechnics (ICEGEO'14) ,Organized organized by Bharathidasn Institute of Technology , Tiruchirappalli, pp 332-336, 30th and 31st October 2014.
16. Tamilmani and G. Venkatesan, "A preliminary article - Destiny of environment: groundwater and soil contamination due to the application of pesticides in agriculture", TEQIP II Sponsored International Conference on Environmental Geotechnics (ICEGEO'14) ,Organized organized by Bharathidasn Institute of Technology , Tiruchirappalli, pp 337-342, 30th and 31st October 2014.
17. M.S.Senthil and G. Venkatesan, "Water quality index for korayar minor basin in manikandam block of Tiruchirappalldistrict,Tamilnadu, TEQIP II Sponsored International Conference on Environmental

Geotechnics (ICEGEO'14) ,Organized organized by Bharathidasn Institute of Technology , Tiruchirappalli, pp 343-351, 30th and 31st October 2014.

18. G.Venkatesan and M.Chandrasekaran, “ A characteristic strength study of concrete with partial replacement of cement with aluminum industry waste-Red mud ”, International conference on “Civil Engineering and Infrastructural issues in Emerging Economies ICCIEE 2013 organized by SASTRA University, Thanjavur, organized Dr.R.Saravana Raja Mohan pp12,27<sup>th</sup> to 28<sup>th</sup> February 2013 .
19. M.Rajeswari and G.Venkatesan, “ Decolourization of dye effluent by using adapted bacterial strain”, International conference on Eco-conservation for sustaibale development (ICECSD -2012) organized by PG& Research Department of Plant Bilogy and Plant Biotechnology,Quaid-E-Milath Government college for Women, Chennai, pp73, 1<sup>st</sup> to 3<sup>rd</sup>Febuary 2012 .
20. G. Venkatesan R. Nallusamy and G. Swaminathan, “A suitability and performance of liners in Indian conditions”, the sixth international eco city conference (Eco-city 6), Bangalore, India Organizer Killen miler and Richard register organized by Ecocity builders USA, 4<sup>th</sup> to 6<sup>th</sup> December 2006.
21. G.Venkatesan, S.Krishnamoorthi and M.Tamilselvam, “Methods for water potential estimation and techniques for water management”Internationalconference on Sustainable development and management of natural resources organized by Holycross college, Tiruchirappalli held on pp14,15-17 March 2003.

#### **Publication in National Conferences -42**

##### **Proceedings as Full Papers with ISSN Number-13**

1. J.Vijayargavan , Jeevakumar R, Venkatesan G, Rengasamy M and Thivya J “Study on Geopolymer coatings Evaluation of corrosion protection of Steel Reinforcements in R.C.C structures , National conference on Advancements in Civil Engineering organized by Vigan Insitute of Technology and science Hyderabad , ISBN 978-81-947313-7-5 on 29<sup>th</sup> and 30<sup>th</sup> December 2020 pp 1-9.
2. G.Venkatesan and N.Vijayargavan “Analysis the behavior of PSC Pole cast with rubber partially as fine aggregate in Concrete” National conference on recent trends in Civil and Environmental Engineering, organized by the Department of Civil Engineering , BIT Campus, Anna University, Trichy on 26<sup>th</sup> August 2020 pp 82-86.
3. Sadayappan.V, Nitees k.Sukla, Rajkumar.K, Venketesan.G, Kalaivani R.A “Review article: Effective utilization of waste tire rubber to avoid environmental pollution”. National conference on recent trends in Civil and Environmental Engineering, Organized by the Department of Civil Engineering , BIT Campus, Anna University, Trichy on 26<sup>th</sup> August 2020 pp 216-220.
4. Thirumal.J , G.Venkatesan and Shalk Qadir.M “Influmece of cation binding agent (STPP) Induced defloculation for diary sludge distegration Third National seminar on Advanced Oxidation Processes (AOP 2017) organized by the Department of Chemistry, BIT Campus, Anna University, Trichy in association with Society for Environmental Chemistry and Allied Sciences (SECAS) ,India on 17<sup>th</sup> to 19<sup>st</sup> December 2017 pp 157-159
5. Vidhya V, G.Venkatesan and K.Jothivenkatachalam, “Study on removal of Toxic metal from the industrial wastewater by Biopolymer based composites ”, TEQIPII sponsored National conference on Research Advances in materilas sciences and applications, organized by Bharathidasn Institute of Technology ,Tiruchirappalli,pp47,19<sup>th</sup> and 20<sup>th</sup>August 2016

6. Nithya MN, G.Venkatesan and K.Jothivenkatachalam, "Recent Technologies in waste water treatment ", TEQIP II sponsored National conference on Research Advances in materials sciences and applications, organized by Bharathidasan Institute of Technology ,Tiruchirappalli,pp43,19<sup>th</sup> and 20<sup>th</sup>August 2016
7. Rajagopalan.V, and G.Venkatesan , "Geotechnical Characterization of clay admixed with Quarry fine as potential liner material ", National conference on recent advances in Geotechnical Engineering", organized by Government college of Technology, Coimbatore, pp 12-15,17<sup>th</sup> April 2015 .
8. Murugesan.A.,G.Venkatesan and R.VijayaSarathy , "Experimental investigation on partial replacement of coarse aggregate with polystyrene ", National conference on recent trends in Civil Engineering towards sustainable development, organized by Kings College of Engineering, Pudukkottai, pp 101-106,9<sup>th</sup> March 2015 .
9. R.Raja and G.Venkatesan, " Behavior of high performance concrete using granite powder and study of its mechanical properties", National conference on Engineering Approach for sustainable development, organized by Modular based credit banking scheme, Anna university of Technology,Tiruchirappalli, Tiruchirappalli, pp5,27<sup>th</sup>September 2011 .
10. S.ShanmugaSundaraboopathy and G.Venkatesan, "Characteristic study of concrete using ash of coconut coir pith- A Review.", National conference on Engineering Approach for sustainable development, organized by Modular based credit banking scheme, Anna university of Technology,Tiruchirappalli, Tiruchirappalli,pp6,27<sup>th</sup>September 2011 .
11. S.Raghuraman and G.Venkatesan, "Flexural behavior of reinforced concrete beams using high volume fly ash concrete confinement in compression zone", National conference on Engineering Approach for sustainable development, organized by Modular based credit banking scheme, Anna university of Technology,Tiruchirappalli, Tiruchirappalli,pp10,27<sup>th</sup>September 2011 .
12. S.Kannan and G.Venkatesan, "Strength and durability of concrete by partially replacing fine aggregate by pond ash and cement by silica fume ", National conference on Engineering Approach for sustainable development, organized by Modular based credit banking scheme, Anna university of Technology, Tiruchirappalli, Tiruchirappalli,pp25,27<sup>th</sup>September 2011 .
13. A.Arjunan and G.Venkatesan , "Green concrete with demolished concrete waste", National conference on emerging trends in Engineering, Management and Computer Applications organized by Anna university of Technology,Tiruchirappalli, Tiruchirappalli, i pp84,1-2 April 2011.

#### **National conference -29**

1. M. Santhosh kumar, G.Venkatesan and C.Ravichandran "Assessment of air pollution by using urban Vegetation" , UGC sponsored Heber National conference on Ensuring Environmental Sustainability Organized by PG& Research Department of Environmental sciences Bishop Heber college Tiruchirappalli held on pp 78 ,22<sup>nd</sup> and 23<sup>th</sup> March 2019.
2. T.Ajithkumar , G.Venkatesan and A.Alagappa Moses "Assessment of Bio-Medical Liquid waste management system" , UGC sponsored Heber National conference on Ensuring Environmental

Sustainability Organized by PG& Research Department of Environmental sciences Bishop Heber college Tiruchirappalli held on pp 94 ,22<sup>nd</sup> and 23<sup>th</sup> March 2019.

3. S.Koteshwaran, M.Rengasamy and G.Venkatesan “Green synthesis of nano particles and its application in dye effluent treatment plant ” , International conference on Recent Advances in computer, Electrical , Electronics , Civil and mechanical Engineering Organized by Ranganathan Engineering College held on Coimbatore ,22<sup>nd</sup> and 23<sup>th</sup> March 2019.
4. G.Venkatesan , M.Saravankumar, Bharath P.Kapgate and K.Rajkumar “Study on waste tire moratar for green Environment , IRMRA 23<sup>rd</sup> Rubber conference and international workshops on Organized by IRMRA Mumbai held on 14<sup>th</sup> and 15<sup>th</sup> December 2018..
5. C. Anupriya, G.Venkatesan and M.Rengasamy “Removal of Oil Spill from Sea Water using Novel Adsorbents” Innovative Practices, Recyclable Materials and Energy Efficient Methods in Civil Engineering organized by the Civil Engineering PSG Institute of Technology and Applied Research Coimbatore on 23<sup>th</sup> to 24<sup>th</sup> March 2018 pp 198-202
6. Aarthi.B., S.UdayaBhanu and G.Venkatesan , “Synthesis of Iron oxide Nanoparticles for Removal of Rhodamine B Dye ”, National Conference on recent trends in Civil Engineering , organized by EGS Pillay Engineering College, Nagapattinam, pp 3,27<sup>th</sup> March 2015 .
7. Mohamed Ismail,..S. UdayaBhanu and G.Venkatesan , “Graphite and mild steel Electrodes fro degradation of Dye by Electrofonton process ”, National Conference on recent trends in Civil Engineering , organized by EGS Pillay Engineering College, Nagapattinam, pp 1,27<sup>th</sup> March 2015 .
8. Palaniappan S. and G.Venkatesan, “Experimental investigation on self compacting concrete using marble powder and silica fume”, TEQIPII sponsored National conference on recent trends in civil and Environmental Engineering, organized byBharathidasn Institute of Technology ,Tiruchirappalli,pp 50,21<sup>st</sup> and 22<sup>nd</sup> March 2014 .
9. Ponraj.A and G.Venkatesan, “ Feasibility study on strength of concrete on partial replacement of cement by using seashell ash”, TEQIPII sponsored National conference on recent trends in civil and Environmental Engineering, organized byBharathidasn Institute of Technology , Tiruchirappalli,pp 51,21<sup>st</sup> and 22<sup>nd</sup> March 2014 .
10. Balachandar. P and G.Venkatesan, “ An Experimental study on partial replacement of cement by chalcedony ”, TEQIPII sponsored National conference on recent trends in civil and Environmental Engineering, organized byBharathidasn Institute of Technology , Tiruchirappalli,pp 55,21<sup>st</sup> and 22<sup>nd</sup> March 2014 .
11. Manesh Kumar.C.S and G.Venkatesan, “ A Experimental study on the strength of concrete produced with waste ceramic tiles as aggregates ”, TEQIPII sponsored National conference on recent trends in civil and Environmental Engineering, organized byBharathidasn Institute of Technology , Tiruchirappalli,pp 59,21<sup>st</sup> and 22<sup>nd</sup> March 2014 .
12. Arun Raj. R and G.Venkatesan, “Environmental impact assessment of strengthening & Four laneing of SH79 from Malliyakari to Erode in the state of Tamil Nadu ”, TEQIPII sponsored National conference on recent

- trends in civil and Environmental Engineering, organized by Bharathidasan Institute of Technology , Tiruchirappalli, pp 66, 21<sup>st</sup> and 22<sup>nd</sup> March 2014 .
13. Shanmuharajan. M.B and G.Venkatesan, "Impact of leachate on groundwater quality at Sorathur, Thuraiyur: A Modeling study ", TEQIP II sponsored National conference on recent trends in civil and Environmental Engineering, organized by Bharathidasan Institute of Technology , Tiruchirappalli, pp 67, 21<sup>st</sup> and 22<sup>nd</sup> March 2014 .
  14. Kowsalaya Devi. A and G.Venkatesan, "Studies on removal of chromium in waste water by using raw Cucurbita Pepo Peel (Pumpkin) ", TEQIP II sponsored National conference on recent trends in civil and Environmental Engineering, organized by Bharathidasan Institute of Technology , Tiruchirappalli, pp 84, 21<sup>st</sup> and 22<sup>nd</sup> March 2014 .
  15. S.Sasi kumar and G.Venkatesan, " Experimental studies of compacting in concrete using steel fiber", National conference on recent trends in civil and Environmental Engineering , organized by Bharathidasan Institute of Technology , Tiruchirappalli, organized by Dr.R. Illangovan pp 34, 19<sup>th</sup> April 2013
  16. M.S Senthil and G.Venkatesan, " Assessment of Ground water resources in unconfined aquifer of hard rock terrain –Ground water balance application in Truchirappalli District ", National conference on Global perspectives on water resources and Environment, organized by Annamalai university , Annamalai Nagar , organized by Dr.S.Poongothai and Ms.K.Ezhaisaivallabi pp 25, 22<sup>nd</sup> and 23<sup>rd</sup> March 2012 .
  17. G.Venkatesan and K.Bhuvaneshwari , " Study on Adsorption of Nickel (II) using foundry sand " National conference on Advanced trends in Civil Engineering, organized by Karpagam university , Coimbatore , organized by M.Karthickkumar pp 96, 2<sup>nd</sup> and 3<sup>rd</sup> March 2012
  18. S.Kannan and G.Venkatesan, "Strength and durability of concrete by replacing fine aggregate by pond ash and cement by silica fume", National conference on Emerging Technologies, organized by M.Kumarasamy college of Engineering, Karur, pp 41, 25<sup>th</sup> February 2012 .
  19. S.Shanmuga Sundarabopathy and G.Venkatesan, " Impact of compressive strength of cement using ash of coconut pith", National conference on Emerging Technologies, organized by M.Kumarasamy college of Engineering, Karur, pp 41, 25<sup>th</sup> February 2012 .
  20. R.Raja and G.Venkatesan, "Behaviour of high performance concrete using Granite Powder", National conference on Emerging Technologies, organized by M.Kumarasamy college of Engineering, Karur, pp 41, 25<sup>th</sup> February 2012 .
  21. Esther Yazhini. D, G.Hemapriya and G.Venkatesan , "fuel free soil using chrysopogon zizanioides", National conference on recent trends in Civil and Mechanical Engineering organized by Anna university of Technology, Tiruchirappalli, Tiruchirappalli, organized by Dr.P.Rajesh prassana and Dr.T.Senthil kumar pp 115, 8<sup>th</sup> and 9<sup>th</sup> April 2011 .
  22. V.Rajagopalan ,G. Venkatesan and U .Senthil Nathan, "Municipal solid waste and its potential for energy invention", Clean Green Environment by implementing Renewable Energy Technologies organized by Oxford Engineering College, Trichy organized by Dr.Jaishankar held on 16-17<sup>th</sup> July 2010, 115-119.



23. U .Senthil Nathan ,G. Venkatesan and V .Rajagopalan ,” Wind energy-An overview”, Clean Green Environment by implementing Renewable Energy Technologies organized by Oxford Engineering College, Trichy held on 16-17th July 2010,168-172.
24. R. Nallusamy , G. Venkatesan and G. Swaminathan, “Effect of chemical constituents water on concrete”, National conference on Environmental degradation and pollution control organized by PSG college of Technology, Coimbatore, India held on 28-30 December 2006, 199-202.
25. G.Venkatesan , G.Swaminathan and K.Palanichamy,“Institutional Solid waste Management-A case study of National Institute of Technology Tiruchirappalli Campus”, in National seminar on Role of Environmental Engineers in Sustainable Development organized by The Institution of Engineers (India),Tiruchirappalli local centre held on 12<sup>th</sup> and 13<sup>th</sup> November 2005,24-35.
26. G.Venkatesan and G.Swaminathan, “Integrated selection of Waste dumps and landfills”, in National conference on Geotechnics in environment protection-GEN-2005 organized by Mothilal Nehru National Institute of Technology, Allahabad held on 9th and 10th April 2005, VI 4-6.
27. G.Venkatesan and G.Swaminathan, “Water Management study for rice crop using staggered growing season”, in National seminar on Innovative Techniques for sustainable development of water resources-ISWR-2005 organized by Annamalai University, Annamalinagar held on 24th and 25th March 2005, 222-231.
28. G.Venkatesan and G.Swaminathan , “Site selection and safe disposal of solid waste landfills”, in National seminar on Solid Waste and Waste water management and Treatment Technologies organized by Bharath Institute of Higher Education and Research ,Chennai held on 11<sup>th</sup> March 2005,89-95.
29. G.Venkatesan, “New concepts of low cost housing” a symposium on modern trends in construction organized by Kongu engineering college, perundurai held on 13th September 1991.

**Faculty development programme /Workshop Attended/Seminar/ Industrial Training: 30**

**Faculty development programme : 11**

1. AICTE sponsored faculty Development Programme on “Incorporating Universal Human Values in Technical Education” All India Council for Technical Education (AICTE) 20.12.2021 to 24.12.2021.
2. Electronics &ICT Academics sponsored faculty Development Programme on ICT Tools for teaching, Learning process and Institute 10.08.2020 to 21.08.2020.
3. AICTE sponsored faculty Development Programme on “Analysis and limit state design of structural steel works as per IS:1893-2016&IS 800-2007” at Government College of Engineering Salem 13.11.2019 to 26.11.2019.
4. UGC sponsored Refresher Course on “Geosciences” at UGC Human resources Development Centre ,Bharathidasan University held on 15.11.18 to 5.12.18

5. Two week Faculty development programme on “Multi-disciplinary approaches in Chemical sciences ” Conducted by Department of Chemistry, Bharathidasan Institute of Technology ,Tiruchirappalli held on 18.7.16 to 31.7.2016.
6. Faculty development programme on “Sustainable Technologies for Waste to Energy “Conducted by Government college of Technology, Coimbatore through TEQIP. held on 10.8.15 to 14.8.15.
7. Summer research fellowship at Indian Institute of Sciences, Bangalore titled on “ studies on permeable reactive barrier” organized by Indian Academy of Sciences Bangalore attended at Indian Institute of Science Bangalore 1.5.2015 to 30.6.15
8. Two week Faculty development programmed on ““SMART Teaching for the NET Generation” Conducted by National Institute of Technical Teachers Training & Research Chennai, Trichy held on 9.12.13 to 23.12.2013.
9. One week Faculty development programmed on TEQIP-II sponsored ““Recent Advances in the Design and Construction of Sustainable Pavements “Conducted by Department of Civil Engineering, Pondicherry Engineering College ,Pondicherry held on 2.12.13 to 7.12.2013.
10. One week Faculty development programmed on TEQIP-II sponsored “ Advances in Building Technology “Conducted by Department of Civil Engineering, Bharathidasan institute of Technology ,Tiruchirappalli held on 19<sup>th</sup> to 25<sup>th</sup>August 2013.
11. Faculty development programmed on TEQIP-II intuitions “CE2351 Structural Analysis -II”Conducted by Centre for faculty development, Anna University, Chennai held on 23<sup>rd</sup> to 27<sup>th</sup>July 2013.

#### **Workshop Attended: 11**

1. Workshop on “Recent trends in Geotechnical Engineering ” at National Institute of Technology, Tiruchirappalli held on 7<sup>th</sup> and 8<sup>th</sup> June 2019.
2. Workshop on “Challenges in Geotechnical Investigation and Foundation Design” at National Institute of Technology, Tiruchirappalli held on 14<sup>th</sup>-15<sup>th</sup> February 2014.
3. Workshop on “Challenges ahead in the ground water sector of Tamil Nadu” Conducted by Central Ground Water Board, South Eastern Coastal Region, Chennai held on 9<sup>th</sup> February 2011.
4. Workshop on “Indo-US Workshop on Forensic Engineering” at National Institute of Technology, Tiruchirappalli held on 15<sup>th</sup>to 17<sup>th</sup> December 2010.
5. Workshop on “Environment and Hygiene” at National Institute of Technology, Tiruchirappalli held on 9<sup>th</sup>December 2006.
6. All India Workshop on “Sewage Treatment and Disposal” at Institution of Engineers (India), Tiruchirappalli held on 17<sup>th</sup> to 19<sup>th</sup> March 2006.
7. Workshop on “Seismic Structural Analysis and Design” at National Institute of Technology, Tiruchirappalli held on 22<sup>nd</sup> and 23<sup>rd</sup> October 2005.
8. Workshop on “Renewable Energy-Energy of the future” at National Institute of Technology, Tiruchirappalli held on 20<sup>th</sup>August 2005.

9. Workshop cum Discussion on “Small Hydro Power Projects” at National Institute of Technology, Tiruchirappalli held on 22<sup>nd</sup> and 23<sup>th</sup> April 2005.
10. Workshop on “Environment and pollution awareness” at Thiagarajar college of Engineering, Madurai held on 25<sup>th</sup> September 2004.
11. Workshop on “Innovative pollution control Techniques for sustainable Environmental Management” held on 24.09.2004 at Pondicherry Engineering College, Pondicherry.

### **Seminar :3**

1. Terzaghi Memorial seminar on “Dynamics of soils and Foundation” at National Institute of Technology, Tiruchirappalli held on 14th October 2017.
2. Training and Awareness Program on Tree Cover Assessment to combat Urban Pollution in Tiruchirappalli Municipal Corporation organized by Forest College and Research Institute, Mettupalayam is on 4th February 2014 .
3. National Symposium on “Impact of computers and Information Technology in Civil and Structural Engineering” at Karunya Institute of Technology, coimbatore held on 24th and 25th August 2001.

### **Industrial Training : 2**

1. Industrial Training Programme at Planning and Design Division , Water Resources Department , Public works Department , Tiruchirappalli 22.06.2021 to 05.07.2021.
2. Industrial Training on “ Telecom Tower Construction ” at BSNL, Tichy organised by Rajiv Gandhi Memorial Telecom Training Centre 15.05.2020 to 05.06.2020.

### **Swayam Course: 4**

1. AICTE Approved FDP NPTEL course Wastewater Treatment and Recycling (12 Weeks) on the SWAYAM platform 25 Jul 2022 to 14 Oct 2022.
2. AICTE Approved FDP NPTEL course Air pollution and Control (12 Weeks) on the SWAYAM platform 24 January 2022 to 15 April 2022.
3. AICTE Approved FDP NPTEL course Integrated Waste Management for a Smart City (12 Weeks) on the SWAYAM platform 26 Jul 2021 to 15 Oct 2021
4. AICTE Approved FDP NPTEL course Environmental Geomechanics (12 Weeks) on the SWAYAM platform 27 Jan 2020 to 17 Apr 2020
5. Annual Refresher Programme in Teaching (ARPIT) 16 weeks Course for Career Advancement Scheme(CAS) promotion Climate change: a guide for teachers of all disciplines 01 Sep 2019 to 09 Feb 2020

### **Research and Consultancy Projects : 23**

### Sponsored Research Projects: 1

1. **Studies on structural element by totting tire derived aggregate**, Indian Rubber Manufacturers Research Association (IRMRA), Ministry of Commerce and industry Government of India. IRMRA/DR RK/Dir/16-17/03/01/Ext-R&D dated 10.4.17.to 31.10.2020.

### Consultancy Projects : 17

1. **preparation of detailed project report (DPR) for construction of tail end structure “conducting surveying and leveling, sub soil investigation and model studies for the construction of tail end wall across coleroon river to arrest sea water intrusion at Thirukazhipalaivillage of Chidambaram Taluk in Cuddalore district and Alakudy village of Sirkazhi Taluk in Nagapattinam district” , Provision of Environmental study, PWD/WRD, Government of Tamilnadu, Planning and Design Division, Thanjavur-9. Planning and Design Division, Thanjavur-9. Dated on 03.08.2020.**
2. **Prepare of feasibility study report for the implementation of additional mitigation measures for controlling fugitive air emission in Power and Furnace division by M/s Sree Rengaraj Ispat Industries (P) Ltd. Perundurai dated on 10.02.2020**
3. **Detail Engineering drawing of Lus roof cover in madurai division for southern railway proof checking by RMK ENGINEERING dated on 19.09.2019 .**
4. **Adequacy report for the storm water management and rain water harvesting plan VGN Fairmount project by VGN property developers Private Limited , E2E solutions Chennai dated 29.1.19**
5. **Adequacy report for STP plant of 300 KLD, Red Sea Eco Solutions & Instruments (p) Ltd, Chennai dated 26.11.18**
6. **Validation of Sewage Treatment Plant Design ,Red Sea Eco Solutions & Instruments (p) Ltd, Chennai dated 23.10.18**
7. **Vetting and approving of the design of sewage treatment, plant , Dugar Homes Chennai dated 15.10.18**
8. **Design Adequacy of sewage treatment plant , Saveetha Medical and Educational Trust, Chennai dated 15.6.18**
9. **TNIAMP works -Mix Design for M<sub>15</sub> and M<sub>20</sub> Grade Concrete for a)Distributory No 3,4,5,6 and 8, dated 18.5.18 b) Distributory No 1,2, Public Works Department NKHLC Section-I Trichy dated 11.7.18**
10. a) **Structural design and Drawings for substructures of proposed Road over bridge (LC.No-157) between Varalpattu and Thiruppadirippuliyur stations, Railway Proof checking. , Thomas Iyadurai infrastructure Pvt.Ltd Chennai dated 1.2.18**  
b) **Structural design and Drawings for the RCC box of proposed Road under bridge (LC.No-22) between Tirusulam and Pallavarm stations , Railway Proof checking, G.Sakthi Constructions Railway contractor , Chennai dated 1.2.18**
11. **Improvements and Rehabilitation of Irrigation structures in Cauvery Basin- Preparation of Detailed project report(DPR) to improvements and Rehabilitation of Irrigation structures for lower coleroon**

**Anicut system- Determine of conveyance efficiency, Field application efficiency and overall efficiency** Foundation design

12. dated 05.1.18
13. **Construction of Road over bridge in lieu of exiting LC No:323 at Km 399/500-600, Railway Proof checking** Railway contractor dated 20.3.17.
14. **Improvements and Rehabilitation of Irrigation structures in Cauvery Basin- Prepaetion of Detailed project report(DPR) to improvements and Rehabilitation of Rajavoikkal project( Raja, Kumarapalayam&Poiyeri and Mohanur Channels)- Determine of conveyance efficiency, Field application efficiency and overall efficiency** , Plan formulation PWD, Government of Tamilnadu, dated 20.7.16
15. **Ambient Air quality monitoring survey for the proposed Desilting of Vagai Dam Reservoir, Pechiparai Reservoir , Mettur Dam Reservoir and Amaravathy Dam in the District of Theni, Kanayakumari , Salem and Tirupurrepectively in Tamil Nadu** ,WAPCOS Limited, Ministry of Water Resources, River Development and Ganga Rejuvenation dated 4.2.16 ,
16. **Ambient Air quality monitoring survey for the proposed establishment of sea front facilities at Nellore**, Andra Pradesh for NIOT, WAPCOS Limited, Ministry of Water Resources, River Development and Ganga Rejuvenation dated 11.2.16
17. **Ambient Air quality monitoring survey for climate adaptation in vennar sub basin in Cauvery delta project(CAVSCDP)**:WAPCOS Limited, Ministry of Water Resources, River Development and Ganga Rejuvenation dated 17.10.15 ,
18. **Third party quality control and assurance executed by CPWD at National Institute of Technology Tiruchirappallion** 18.09.2015

#### Testing Works: 5

1. **Analysis of water and soil samples for EIA study for Desilting of Vagai Dam Reservoir, Pechiparai Reservoir , Mettur Dam Reservoir and Amaravathy Dam in the District of Theni, Kanayakumari , Salem and Tirupurrepectively in Tamil Nadu** ,WAPCOS Limited, Ministry of Water Resources, River Development and Ganga Rejuvenation dated 9.3.16 ,
2. **Analysis of water and soil samples for EIA study” Climate adaptation in Vennar sub basin in Cauvery Delta Project(CAVSCDP)** on WAPCOS dated 30.10.15,
3. **Conducting siltation studies for silt factor at Grand Anicut canal projecton** WAPCOS dated dated 27.10.15,
4. **Testing of Water sample Valady to Manaparai Railway line project for southern railway Contractor: CDM smith (P) Ltd.Bengaluru. dated 17.11.2014 ,**
5. **Water quality analysis Valady to Manaparai Railway line project for southern railway Contractor: CDM smith (P) Ltd.Bengaluru. dated 16.7.2013 ,**

## Research Projects Assisted :2

1. MHRD sponsored thrust area project on “**Engineered Study on Solid Waste Management Systems for Resource and Energy Recovery**” at National Institute of Technology, Tiruchirappalli
2. Institute of Water studies, WRO,PWD research project on “**Water Management studies in Agniar river basin**at National Institute of Technology, Tiruchirappalli

## Students Sponsored Projects under my supervision: 13

### Ph.D : 3

1. IRMRA Sponsored Project, Senior Research Fellow M. Saravana Kumar from 22.01.2018 to 18.10.2019.
2. TEQIPII financial Assistantship ,S.Pitchaikani, ground water contamination transport modeling for Noyal River basin.(Rs 12,0000 per month, 1.3.2016 to 31.12.16)
3. TEQIPII financial Assistantship, S.Lakshminarayanan “ A Adsorption study on Removal of heavy metals from industrial wastewater”(Rs 12,0000 per month, 6.2.2015 to 31.12.16)

### M.E :5

1. **CTDT, Anna University** sponsored Programme under Student Innovate projects “Landfill gases detection from municipal solid wastes in Trichy with lab scale model using Internet of Things (R.Mithuna and S.Gandhimathi, 2019 P-1819S4304/CTDT dated 08.05.2019)
2. **Tamil Nadu State council Science and Technology, Chennai** sponsored Programme under Student Project Scheme “Studies on partial replacement of clay by waste tire chips in landfill Liner (C Yogesh prabhu, 2013 TNSCST/SPS/AR/2017-2018 dated 31.01.2018)
3. TEQIPII financial Assistantship of, M.Maheswari,“Photocatalytic removal of toxic pollutant in effluent water by nanocomposite materials”. (Rs 20,0000 ,M.E Environmental Engineering ,June 2016).
4. TEQIPII financial Assistantship, K.MohamedIsmail,“Studies on removal of Textile dye bt eco friendly Electro-Fenton method using Ecofriendly Fe(II) and Hydrogen peroxide. (Rs 20,0000 ,M.E Environmental Engineering ,June 2015).
5. TEQIPII financial Assistantship, ,R.Suchithra, “Watershed impact assement using remote sensing and GIS application. (Rs 20,0000 ,M.E Environmental Engineering ,June 2015).

### B.E : 5

1. **Tamil Nadu State council Science and Technolgy, Chennai** sponsored Programme under Student Project Scheme “Catalytic degradation of organic dyes using green synthesis of silver nano particles from ficus reigiosa tree bark ( P.Anusuya, R.Bruntha, P Gowthaman and P.Vetriarasan ),TNSCST/SPS/AR/2019-2020 dated 20.03.2020)

2. *Tamil Nadu State council Science and Technology, Chennai* sponsored Programme under Student Project Scheme “Green building materials- Solar Tiles - a Case Study (A.Kaviyarasan ,M.Krishnamoorthy M.Sanmuga Sakkaravarthy ,TNSCST/SPS/AR/2017-2018 dated 31.01.2018)
3. TEQIPII financial Assistantship, A.Adhiyaman ,S.Anbudurai ,R.Arumbu ,R.Gop, ,”Water balance study on Iluppur watershed”(Rs 10,0000 ,2016).
4. TEQIPII financial Assistantship, L.K.Ahalya, R.Marikani,A.Saravanan,RajSivadharsan ,”Soft speed Analysis for road safety”(Rs 10,0000 ,2015).
5. TEQIPII financial Assistantship ,A.Dhivyabarthi, G.RajaSwedna, V.Ramakrishnan, V.Sivanesan,,” Analysis of Octagonal shaped Multistory commercial complex”(Rs 10,0000 ,2015).
6. TEQIPII financial Assistantship ,P.Usha, S.Latha, M.Praneedha, R.C.Ramya, Estimate of Desilting tank at Sorriyur Village (Rs 10,0000 ,2015).
7. *Tamil Nadu State council Science and Technology, Chennai* sponsored Programme under Student Project Scheme “Ground improvment technique using low density polymer - (Abinaya.V, Arunkumar.P,Priya.K, Saravanakkumar.M, TNSCST/SPS/AR/2013-2014 dated 15.04.2014)

**Key Note speaker/Chairman/Jury of conference and Symposium: 20**

**International: 6**

1. Chair for the session titled “Waste Management” Heber international conference on Climate Adaption and Resilience Organized by Department of Environmental sciences Bishop Heber college Tiruchirappalli held on 22<sup>nd</sup> April 2022.
2. Key note speaker on Sustainable materials and its green Technologies for Industry 4.0 (SMiGT 2021 ) organized by Adithya Institute of Technology Coimbatore ,06-09 April 2021.
3. Session Chair on Sustainable materials and its green Technologies for Industry 4.0 (SMiGT 2021 ) organized by Adithya Institute of Techology Coimbatore ,06-09 April 2021.
4. Jury of the International Conference on Advances in Civil and Mechanical Engineering at Sri Shakthi Institute of Engineering and Technology Coimbatore held on 30<sup>th</sup> and 31<sup>st</sup> December 2020.
5. Jury of the International Conference on Advances in Materials research-2019 at Bannari Amman Institute of Technology Sathamangalam held on 6<sup>th</sup> and 7<sup>th</sup> December 2019.
6. Key note speaker on International conference on newer Engineering concepts and Technology (ICONNECT2K18) organized by K.Ramakrishnan College of Technology Trichy,23<sup>th</sup> March 2018.

**National level :6**

1. Key note speaker on AICTE sponsored online training programme (STTP) A Beeline for circular economy through sustainable waste management topic of Integrated solid waste management in smart city at KSR College of Engineering held on 21.9.2021
2. Key note speaker National level workshop on sustainable practices in Solid waste Management at topic on solid waste management Techniques at M.Kumarasamy College of Engineering Karur held on 22.2.2020
3. Session speaker AICTE sponsored STTP on Application of Geosynthetics in Construction Industry topic on Application of Geosynthetics in Construction Industry organized by Kumaraguru College of Technology Coimbatore held on 01.02.2020.
4. Session chair on UGC sponsored Heber national conference on Ensuring Environmental Sustainability Organized by PG& Research Department of Environmental sciences Bishop Heber college Tiruchirappalli held on 23<sup>th</sup> March 2019.
5. Chief guest on National conference on recent trends in Civil Engineering Organized by Mother Teresa College of Engineering and Technology Illuupur held on 21.3.2019
6. Co-chair theme of Geo Environmental Engineering 6<sup>th</sup> Indian young Geotechnical Engineers conference Organized by Indian Geotechnical Society Trichy Chapter and Department of Civil Engineering National Institute of Technology Tiruchirappalli held on 10.3.2017 and 11.03.2017.
7. Key note speaker on Column studies on removal of cadmium ions from polluted water using wood of *Derris indica* based on activated carbon, under the sub theme of Wastewater, off-site disposal, on-site disposal and Cutting Edge Technologies in the 25<sup>th</sup> IPHE national convention on 'Environmental Engineering & 3<sup>rd</sup> International conference and Exhibition ENVISION 2025 jointly organized by IPHE, Chennai-Pondicherry Regional Center and CLRI at Centerl Leather Research Institute, Chennai, 13<sup>th</sup> March 2014.

#### **University / College level :11**

1. Chief guest and Resources person for value added course on " Green House effect and Climate Change " organized Muthayammal Engineering College Rasipuram held on 12.11.2021.
2. Resources person for association inaugural BRECCIA 2k21 and guest lecture on Application of waste tyres in concrete in Rover Engineering College Perambalur held on 22.10.2021.
3. Chief Guest and delivering a lectures in National level technical symposium topic on Climate Change in Urban Cities PRIST Deemed to be University Thanjavur held on 24.09.2019.
4. Guest lecture and act as judge for paper preentation TECXPLO'18 topic Water Resources Management Mookambigai College of Engineering Pudukkottai held on 28<sup>th</sup> September 2018.
5. Chair person on Student Association Inaugural function topic by Air pollution Management Rover Engineering College Perambalur held on 25<sup>th</sup> August 2018.
6. Expert lecture on ADB Environmental Monitoring and improvements works in Venna sub basin under climate adaptation from sub basin development programme topic of perspective on recycle, reuse and waste water reclamation organized by Tamil nadu PWD held on 21.08.2018.
7. Chief guest on National level Technical Symposium "CMS TECH FEST 2K18" Organized by CMS College of Engineering Namakkal held on 21.3.2019



8. Chief guest deliver a lecture on prefabricated structures on Organized by National level Symposium CK College of Engineering and Technology Cuddalore held on 27.2.2018
9. Special lecture on Recent trends in waste water Engineering and Management , National level Technical symposium, ChozhaBuilt -206 ,Organized by Department of Civil Engineering in University college of Engineering Ariyalur held on 18.03. 2016.
10. Jury of the National level student technical symposium iTechfest'13 held on 14<sup>th</sup> September 2013 at IFET college of Engineering , Villupuram.
11. Chairman of the national level technical symposium(EUREKA'13) held on 12<sup>th</sup> April 2013 at University college of Engineering ,Thirukkuvai.

### **Guest Lecture/Invited talks Delivered- 39**

1. Guest Lecture on E Waste Management strategies in the Developing Countries organized by Er.Perumal Manimekhalai College of Engineering , Housur on 06.3.2023.
2. Lecture on use of construction chemicals in civil Engineering and application of waste tyre concrete to the Assistant Engineers/ Junior Engineers in Agricultural Engineering Department organized by Agricultural Engineering Tanning Institute , Triuchirappalli on 19.01.23
3. Lecture on use of construction chemicals in civil Engineering and application of waste tyre concrete to the Assistant Engineers/ Junior Engineers in Agricultural Engineering Department organized by Agricultural Engineering Tanning Institute , Triuchirappalli on 11.11.22
4. Lecture on Concrete properties and its Nonstructural Engineering application using Rubberized materials organized by SRM TRP Engineering College , Triuchirappalli on 16.9.2022.
5. Special lecture on Integrated solid waste management for smart city organized by MIET Engineering College , Triuchirappalli on 24.8.2022.
6. Guest speaker on Integrated solid waste management in a typical city organized by Paavai Engineering College, Namakkal on 05.6.2022.
7. Lecture on Climate change and risk assessment organized by ACTE sponsored six days online STTP , Department of Civil Engineering, University College of Engineering Triuchirappalli, on 14.12.2021.
8. Lecture on Environmental risk assessment during disaster organized by ACTE sponsored six days online STTP , Department of Civil Engineering, Fgeotechnic, on 11.12.2021.
9. Lecture on Advances in Municipal solid waste Management organized by Latha Mathavan Engineering College, Madurai on 20.10.2021.
10. Lecture on Laboratory studies on Landfill liner and Groundwater quality impact on solid waste dumping yard organized by AICTE Sponsored online one week faculty Development programme(ATAL) Department of Civil Engineering ,University College of Engineering, Ramanathapuram on 13.09.2021 and 14.09.2021
11. Lecture on faculty Development Programme on CE8301 strength of Materials I organized by Department of Civil Engineering, University College Of Engineering, Ramanathapuram on 09.06.2021.

12. Lecture on Case studies on Corrosion aspects of Repair and Rehabilitation on AICTE Sponsored two week faculty Development Programme on Assessment Repair and Rehabilitation of structures organized by Sri Krishna College of Engineering and Technology , Coimbatore on 17.05.2021.
13. Lecture on Corrosion aspects of Repair and Rehabilitation of structures on AICTE Sponsored two week faculty Development Programme on Assessment Repair and Rehabilitation of structures organized by Sri Krishna College of Engineering and Technology , Coimbatore on 13.05.2021.
14. Lecture on Conjunctive use of surface and Ground water on Induction training to the newly recruited Assistant Engineers PWD (2017-2018) organized by Irrigation Management Training Institute , Triuchirappalli on 01.2.21
15. Speaker on Application of Remote sensing in soil and Groundwater contamination Assessment on AICTE Sponsored one week faculty Development Programme on organized by Sri Krishna College of Engineering and Technology , Coimbatore on 12.09.2020.
16. Lecture on Managing Eradicating legacy waste landfill AICTE Sponsored one week faculty Development Programme Industrial and Municipal solid waste management for Green India organized by PSR Engineering College Sivakasi on 28.08.2020
17. Speaker on Application of Remote sensing in soil and Groundwater contamination Assessment on AICTE Sponsored one week faculty Development Programme on organized by Sri Krishna College of Engineering and Technology , Coimbatore on 08.08.2020.
18. Speaker on Application of Remote sensing in soil and Groundwater contamination Assessment on AICTE Sponsored one week faculty Development Programme on organized by Sri Krishna College of Engineering and Technology , Coimbatore on 01.08.2020
19. Guest Lecture on Municipal solid waste landfill liner system in smart city organized by SNS College of Technology , Coimbatore on 20.6.20.
20. Webinar session on Ensuring safety during Landfill Design organized by Amity University , Haryana on 04.9.20.
21. Lecture on Selection of liner for landfill on DST NIMAT Sponsored two week faculty Development Programme organized by Bannari Amman Institute of Technology Sathamangalam on 06.12.19
22. Guest Lecture on Indoor quality management at MIET Engineering College , Triuchirappalli on 03.9.19
23. Lecture on Environmental Disaster on AICTE –Margdarshan Sponsored FDP Application of Soft Computing Tools In Disaster Modeling organized by National Institute of Technology , Triuchirappalli on 02.8.19
24. Lecture on Environmental system modeling and application workshop on Hands on Training on software Application in Civil Engineering organized by University college of Engineering Tiruchirappalli on 21.3.19.
25. Guest Lecture on Advanced Techniques in Prefabricated structures organized by Kongunadu College of Engineering & Technology on 7.2.19

26. Expert Lecture on Municipal solid waste landfill liner organized in One week short term course on Waste Management organized by Department of Energy and Environment , National institute of Technology , Tiruchirappalli on 27.9.18
27. Lecture on Perspective on Recycle, Reuse and Waste water reclamation - ADB Environmental Mentoring and improvements works in Vennar Sub basin –under climate Adoption for sub basin developments Workshop Organized by Public Works staff training Institute Tiruchirappalli on 9.8 2018
28. Lecture on irrigation Scheduling ,PIM with case study , Anna university sponsored Faculty Development Programme on CE6703 Water Resources and Irrigation Engineering , Organized by University college of Engineering ,Panruti held on 13.06 2018.
29. Lecture on Improvements and Increasing soil wealth - ADB Environmental Mentoring and improvements works in Vennar Sub basin –under climate Adoption for sub basin developments Workshop Organized by Public Works staff training Institute Tiruchirappalli on 23.1. 2018
30. Lecture on Special Training course on Modernization Technologies in Irrigation Managemnt for MLO/JLOS of PWD lecture on Environmental Aspects in Water Resources Organized by Public Works staff training Institute Tiruchirappalli on 1.8. 2017.
31. Resource person of Orientation courses for NSS Programme officers lecture deliver on “Role of NSS Po’s and volunteers in Disaster preparedness and Management” Organized by National Service scheme empanelled traning Institution (ETI) Chennai on 12.06.2017
32. Lecture on Momentum balance and its applications, Anna university sponsored Faculty Development Programme on Fluid flow operations , Organized by Petrochemical Technology in Bharathidasn Institute of Technology, Tiruchirappalli, held on 23.12 2016.
33. Guest lecture “Air pollution Management”, Jayram College of Engineering &Technology, Trichyheld on 1.09.2016.
34. Lecture on Application of Remote sensing and GIS in IT , TEQIP II sponsored Faculty Development Programme on Top tech trends –Driving the future of IT , Organized by Department of Computer Science and Engineering in Bharathidasn Institute of Technology, Tiruchirappalli, held on 8.7 2016.
35. Lecture on Joints in prefabrication , TEQIP II sponsored Faculty Development Programme on Prefabricated structures , Organized by Department of Civil Engineering in Bharathidasn Institute of Technology, Tiruchirappalli, held on 15.6 2016.
36. Lecture on Wall Making Technology , TEQIP II sponsored Faculty Development Programme on Prefabricated structures , Organized by Department of Civil Engineering in Bharathidasn Institute of Technology, Tiruchirappalli, held on 8.6 2016.
37. Lecture on Design Site investigation and selection of foundation in the subject of CE 6502 Foundation Engineering organized by Department of Civil Engineering ,University College Of Engineering, Patukkottai on 12.05.2016.
38. Lecture on Recent trends in waste water Engineering and Management at University college of Engineering Ariyalur 23.03.16

39. Lecture on prefabricated structures FDP Organized by Department of Civil Engineering in MAM college of Engineering held on Tiruchirappalli, held on 10.01.2016.
40. Guest lecture on Environmental application of Remote sensing and GIS , TEQIP II sponsored Faculty Development Programme on Application of GIS and Remote Sensing ,Organized by Department of Civil Engineering in Bharathidasn Institute of Technology , Tiruchirappalli, held on 27.04.2015
41. Guest lecture on Watershed impact Assessment using Remote sensing and GIS Application TEQIP II sponsored Faculty Development Programme on Application of GIS and Remote Sensing ,Organized by Department of Civil Engineering in Bharathidasn Institute of Technology , Tiruchirappalli, held on 26.04.2015
42. Guest lecture on prefabricated structures for the Training Programme on “Cost-Effective and Disaster Resistant Technologies” organized by Building Materials and Technology Promotion Council Ministry of Housing and Urban Poverty Alleviation ,Government of India, New Delhi held at Bharathidasn Institute of Technology , Tiruchirappalli, on 27.2.2015.
43. Guest lecture on “Land fill liner in solid waste dump yards”for the National level workshop on Solid and E Waste Management held at Bannari Amman Institute of Technology Sathyamangalam on 21.02.2015.
44. Guest lecture “Greenhouse effect and climate change ”Prestentia-14, held on 24<sup>th</sup>, Kings college of Engineering, Puttukottai.27.09.2014
45. Lecture on Design earthquake ,concept of peak acceleration ,Site specific response and spectrum Effect of soil properties and damping in the subject of CE2403 Basics of Dynamics and Aseismic Design organized by Department of Civil Engineering ,University College Of Engineering, Dindigul on 22.06.2014.
46. Chief Guest and deliver the address on the theme “Small Islands and Climate Change”, on the occasion of World Environment Day held on Institute of Engineers India (IEI), Tiruchirappalli local centre on 10.06.2014.
47. Guest lecture on Forces on Dam, Design of weirs TEQIP II sponsored two days seminar Programme on Recent trends in Irrigation Engineering ,Organized by Department of Civil Engineering in Bharathidasn Institute of Technology , Tiruchirappalli, held on 11.10.2013.
48. Guest lecture “Environmental Engineering ” held on MAM College of Engineering and Technology, Tiruchirappalli.12.2.2013

## **Subjects Handled**

### **Under Graduate :**

1. Air Pollution Management
2. Municipal Solid Waste Management
3. Irrigation Engineering
4. Foundation Engineering
5. Environmental Engineering
6. Environmental Studies
7. Ground Water Engineering
8. Hydrology
9. Water Resources Engineering
10. Prefabricated structures
11. Mechanics of Fluids
12. Applied Hydraulic Engineering
13. Highway Engineering
14. Basics of Civil Engineering

### **Post Graduate :**

#### **M.E Environmental Engineering :**

15. Climate Change and Adaptation
16. Air Pollution and Control
17. Physical and Chemical Treatment of Water and Wastewater
18. Rural Water Supply and onsite Sanitation
19. Solid and Hazardous Waste Management
20. Biological Treatment of Water and Wastewater
21. Environmental Chemistry

#### **M.E Structural Engineering :**

22. Pre fabricated structures
23. Design of substructures
24. Concrete Technology
25. Maintenance and Rehabilitation of Structures

## **Job**

➤ To handle lecture classes for Under Graduate and Post Graduate

## **Responsibilities**

➤ To Co-ordinate Research Activities

➤ To set question papers for the subjects handled

➤ To assist in administrative work

**Other Responsibilities:**

- Department Assignments :**
1. Environmental chemistry Lab In charge (PG)
  2. B.E Environmental Engineering Lab In charge
  3. Department Technical Education Quality Improvement Programme (TEQIP) coordinator
  4. Student Association Coordinator
  5. P.G Programme coordinator (Environmental Engineering)
  6. Web portal Faculty In charge course completion certificate both U.G and P.G Programme
  7. B.E Civil Engineering Final year class coordinator(2013-2014)
  8. M.E Environmental Engineering project coordinator(2014 -2019 )
  9. Project proposals, Seminar, conference, Workshop and short term course incharge
  10. Student fortnight report in charge (2011-2012)
  11. Department Assessment Test coordinator(2011-2012)
  12. Consultancy works associated with Civil Engineering
  13. Guiding the students M.E Environmental Engineering and M.E (P.T ) Structural Engineering
  14. Guiding the three Research scholars at AUC (2210164 )

- College / University Level :**
1. Member Anti Ragging committee
  2. NBA Core Coordinating Member and Safety committee member.
  3. Member Product Development Cell
  4. Acted as chairman and Vice chairman in Anna University central valuation.
  5. Committee Member Graduation Day.
  6. Member in Affiliation committee Anna University
  7. Committee Member Graduation Day Stage, Decoration and Banners
  8. Member in Research Centre recognition Anna University
  9. Maintenance coordinator (2012-2013)
  10. Board of studies in-charge (2011-2012)
  11. Tamil book securitize committee member (2011)

**Participated past Assignments:**

1. Served as Board of studies in- charge , Anna University Technology Tiruchirappalli
2. Served as Midterm test coordinator
3. Served as member in question paper Scrutiny committee Anna University Technology Tiruchirappalli

4. Established in Environmental Microbiology Lab
5. Served as Chairman Affiliation committee Anna University Technology Tiruchirappalli
6. Served as Estate maintenance coordinator in Anna University Chennai Regional office Truchirappalli and University college of Engineering Truchirappall.
7. Served as B.E Civil Engineering design project coordinator

**Other Activities:**

1. BOS Member Alagappa Chettiar College of Engineering and Technogy , Karikudi
2. Memembr of Syllabus revision for solid mechanics , Sri Krishna College of Engineering and Technology , Coimbatore.
3. Examiner for Scrutinizing the question papers of the Board of Civil Engineering Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology.
4. External Expert staff selection committee Bishop Heber College, Tiruchirappalli.
5. Lab Purchase committee member , Alagappa Chettiar College of Engineering and Technology , Karikudi
6. Project staff selection committee member at Department of Civil Engineering National Institute of Technology Tiruchirappalli
7. External member of Fluid Mechanics lab purchase committee at National Institute of Technology Tiruchirappalli
8. External member of Geo technical lab purchase committee at National Institute of Technology Tiruchirappalli

**Membership in the Organization: 12**

1. Life Fellow (LF-0585 ) in Indian Geotechnical Society, New Delhi , from 16.09.2019 to till date.
2. Life member (LM 1274) in The Indian Society for Hydraulics Pune ,from 1.02.2017 to till date.
3. Life member (LM 1924) in Indian Association of Hydrologists Roorkee ,from16.09.2016 to till date.
4. Fellow ( F3140900151) in International society for Research and Development ISRD from 1.1.15 to till date.
5. Life Fellow(LF666) in Institution of Public health Engineers, India, Kolkata ,from28.03.2014 to till date.
6. Life Fellow (LF1177) in Indian Water Works Association, Mumbai, from 16.01.2014 to till date.
7. Life member (LM 002) in Indian Geotechnical Society Trichy Chapter from 14.2.2014 to till date
8. Member(L 19794) in The Indian Science Congress Association, Kolkata,from01.06.2012 to till date.
9. Member in National Solid Waste Association of India ( NSWAI ), from 01.05.2012 to till date.
10. Member (M -135408-0) in Institution of Engineers (India), Kolkatta,from 15.01.2008 to till date.
11. Life member (LM 869) in Indian Geotechnical Society Chennai Chapter, from 12.04.2007to till date.
12. Life member (LM 31306) in Indian Society for Technical Education, New Delhi ,from 01.01.2003to till date.

**Fellowships and Grants**

1. Ph.D Research Assistantship **under TEQIP, NPIU at NIT**Truchirappalli (15.6.05 –13.6.06)

### **Patents granted:**

1. A Solid waste barrier liner composition for landfill with clay and microsilica . Indian Patent No: 361492 and Application No: 201941043080, Dated: 23.10.2019. G. Venkatesan, G. Swaminathan and S. lakshmana prabu
2. A process of preparing an absorbent which use in extracting heavy metals ions. Indian Patent No: 370469 and Application No: 201941018898, Dated: 11.05.2019. G. Venkatesan and S. Lakshmi Narayanan

### **Books Published/ Conference Editors: 13**

1. G.Venkatesan, G.Selvabharathi and K.Anbarasi (2023) Environmental Sciences And Sustainability , Suchitra publications , ISBN 978-81-960819-1-1
2. Venkatesan, G., Renganathan, M., Kavin Raj, L. (2023). Performance of Permeable Reactive Barrier by Using Rubber Particles. Transportation and Environmental Geotechnics . IGC 2021. Lecture Notes in Civil Engineering, vol 298. Springer, Singapore., ISBN 978-981-19-6773-3
3. Lakshmana Prabu S., Rengasamy M. (2022) Sustainability Studies: Environmental and Energy Management. Bentham Books, ISBN 978-981-5039-93
4. G.Venkatesan ,R.Ruthra and S.Arun Kumar (2022) Water Supply and Waste Water Engineering, Suchitra publications , ISBN 978-81-953605-7-4
5. G.Venkatesan , Dr.M.Rengasamy, Dr.P.Saravanan (2022) Waste Water Treatment , Lakshmi publications , ISBN 978-81-953818-4-5
6. Ravichandran, C.; Venkatesan, G. (2021) Toward sustainable solid waste management—Challenges and opportunities. Handbook of Advanced Approaches Towards Pollution Prevention and Control Volume 2: Legislative Measures and Sustainability for Pollution Prevention and Control Edited by: Rehab O. Abdel Rahman and Chaudhery Mustansar Hussain 2, 67–103. ISBN 978-0-12-822134-1.
7. G.Venkatesan, V.Rajagopalan (2020), National Conference on Recent trends in Civil and Environmental Engineering , Jiazym publication, ISBN 9789387360679.
8. G.Venkatesan ,R.Saravanan, P.Balamuran and S.Arun Kumar (2020) Waste Water Engineering Lakshmi publications , ISBN 978-93-87950-48-1
9. G.Venkatesan, J Tirumal (2019) Global Perspectives on Air Pollution Prevention and Control System Design, IGI Global , US ,ISBN13: 9781522572893.
10. Umamaheswari A., Lakshmana Prabu S., Rengasamy M., Venkatesan G. (2018) A Safety Promotion Approach for Handling of Chemicals in the Working Environmental Management. In: Hussain C. (eds) Handbook of Environmental Materials Management. Springer, Cham, ISBN978-3-319-58538-3



11. G.Venkatesan, (2016) Water Management Study for Rice Crop Using Staggered Growing Season by ISBN-13:978-3-659-92983-0, LAP LAMBERT Academic Publishing, Germany, 88 pages
12. S. Lakshmana Prabu, G. Venkatesan (2016) Wastewater Treatment Methods, Advanced Engineering: Current Perspective,95-108, ISBN No 978-93-84443-50-4, Research India publication.
13. பாய்ம் இயந்திரவியல் (Mechanics of fluids -Vernacular book in Tamil medium )  
Publisher:Anna university of Technology,Tiruchirappalli ,March 2011.

**Conference organized /Faculty development programme /Workshop - 19**

**Faculty development programme:3**

1. Coordinator for Centre for Faculty Development Anna University sponsored Faculty Development Programme on CE 8302 Fluid Mechanics conducted by Department of Civil Engineering in Bharathidasn Institute of Technology, Tiruchirappalli, held on 24.6.19 to 29.6.19.
2. Coordinator for TEQIP II sponsored Faculty Development Programme on Prefabricated structures , Organized by Department of Civil Engineering in Bharathidasn Institute of Technology, Tiruchirappalli, held on 4 - 17 , June 2016.
3. Coordinator for TEQIP II sponsored Faculty Development Programme on Application of GIS and Remote Sensing, Organized by Department of Civil Engineering in Bharathidasn Institute of Technology,Tiruchirappalli, held on 24 - 30 , April 2015.

**Conference organized: 5**

1. Organizing Secretary in online Live (Virtual) National conference on recent trends in Civil and Environmental Engineering, Organized by Department of Civil Engineering in University College of Engineering –BIT campus , Tiruchirappalli, 26<sup>th</sup> August 2020.
2. Organizing Secretary in TEQIP II sponsored National conference on recent trends in Civil and Environmental Engineering, Organized by Department of Civil Engineering in Bharathidasn Institute of Technology, Tiruchirappalli, 30<sup>th</sup> and 31<sup>st</sup> August 2016.
3. Organizing Secretary in TEQIP II Sponsored international conference on Environmental Geotechnics (ICEGEO'14), Organized by Department of Civil Engineering in Bharathidasn Institute of Technology , Tiruchirappalli, held on 30<sup>th</sup> and 31<sup>st</sup> October 2014..
4. Co- Convener in TEQIP II sponsored National conference on recent trends in civil and Environmental Engineering, Organized by Department of Civil Engineering in Bharathidasn Institute of Technology, Tiruchirappalli, 2<sup>1st</sup> and 2<sup>2nd</sup> March 2014 .
5. Treasurer in National conference on Recent Trends in Civil and Mechanical engineering organized by Department of Civil and Mechanical Engineering in Anna university of Technology,Tiruchirappalli, Tiruchirappalli,8<sup>th</sup> and 9<sup>th</sup> April 2011 .

**Symposium :5**

1. Coordinator for national level student symposium (Innogido'20) Organized by Department of Civil Engineering in Bharathidasn Institute of Technology ,Tiruchirappalli, held on 25<sup>th</sup> February 2020.
2. Coordinator for TEQ IPII sponsored two Day national level student symposium (Innogido'16) Organized by Department of Civil Engineering in Bharathidasn Institute of Technology ,Tiruchirappalli, held on 25<sup>th</sup> and 26<sup>th</sup> February 2016.
3. Coordinator for TEQIPII sponsored two Day national level student symposium (Innogido - 2014) Organized by Department of Civil Engineering in Bharathidasn Institute of Technology ,Tiruchirappalli, held on 11<sup>th</sup> and 12<sup>th</sup> September 2014.
4. Coordinator for one Day national level student symposium (Innogido - 2013) held on 10<sup>th</sup> October 2013.
5. Coordinator for two Day national level student symposium (Innogido - 2012) at held on 15<sup>th</sup> and 16<sup>th</sup> October 2012.

#### **Workshop :5**

1. Coordinator in one day Workshop on Hands on training on software applications in Civil Engineering Organized by Department of Civil Engineering in University College of Engineering , Tiruchirappalli, on 21.3.18.
2. Coordinator in TEQIP II sponsored Industrial workshop on Novel approaches in Civil Engineering, Organized by Department of Civil Engineering in Bharathidasn Institute of Technology, Tiruchirappalli, 30<sup>th</sup> and 31<sup>st</sup> August 2016
3. Coordinator for *empanelment agencies for imparting training to civil Engineers, Architects and masons titled on "Cost-Effective and Disaster Resistant Technologies"* organized by Building Materials and Technology Promotion Council Ministry of Housing and Urban Poverty Alleviation ,Government of India, New Delhi held at Bharathidasn Institute of Technology , Tiruchirappalli, on 26<sup>th</sup> and 27<sup>th</sup> February 2015
4. Coordinator for IIT Bombay's National Civil Bridge Championship Workshop cum Championship Organized by Department of Civil Engineering in Bharathidasn Institute of Technology, Tiruchirappalli, held on 11<sup>th</sup> and 12<sup>th</sup> September 2014.
5. Coordinator of one Day workshop on Sustainable Municipal Solid Waste Management (SMSWM - 2010) at held on 4<sup>th</sup> October 2010.

#### **Seminar :1**

1. Coordinator for TEQIP II Sponsored two Days Seminar on Recent Trends in Irrigation Engineering (RTIE'13), held on 10<sup>th</sup> - 11<sup>th</sup>, October 2013.

#### **RESEARCH MENTORSHIP:**

#### **PhD Awarded-10**

1. Tamilmani.R, “ Analysis of Multiple Contaminants in Cauvery River and its Adjacent Land Zones: A Special Focus on Heavy Metal Impacts by Metal Resistant and Biosorption Screening” .( 13.06.2022)
2. S.M.Kavitha “ Stength and durability study on polymer coated stelfibre reinforced self compacting with copper slag and silica fume” . (31.12.2021 )
3. Mrs.S.Pitthaikani, “Assessment of groundwater pollution using intrinsic methods .(23.07.2021 )
4. Senthil.M.S, “Ground water modeling fractured flow aquifer” .(01.03.2021 )
5. S.Pauline “ A comprehensive study on treatment of reverse osmosis brine using capacitive deionization technology” (14.08.2020 )
6. Gopinathan S, Durability of aspects of concrete structures,(30.07.2020 )
7. Sujatha.S, “Experimental studies on activated carbon developed from Manilkara Zapota tree wood and de oiled soya fro the removal of heavy metal ions ”.( 27.12.2018 )
8. S.Lakshminarayanan “ A Adsorption study on Removal of heavy metals from industrial wastewater” ( 07.9.2018)
9. Raja Gopaln. V,,“ Potential use of quarry fines with clay landfill liner in prevention of heavy metals transport ”(17.05.2017)
10. Senthil Nathan.U, “Removal of cadmium, chromium and lead in polluted water using low cost adsorbents” (5.11. 2014).

#### **PhD Guidance(Ongoing) –3**

1. Anjali R,“ Optimization and Prediction Ofmechanical Properties Of Wastepolymeric Material Using RSM and hybrid DNN-HHO algorithm “ ( 2016 on words- Thesis submitted )
2. Saravanakumar M,“ Experimental investigation on flexural behavior and durability study on beam by using high performance light weight concrete” ( 2016 on words- Confirmation completed).
3. Parthiban. L “The utilization of agricultural waste as a concrete product” (2022 on words- Course Work Completed)

#### **Master of Engineering Guidance -48**

#### **Bachelor of Engineering Guidance - 66**

#### **AMIE Guidance – 2**

#### **Master of Engineering Guidance - 48**

1. Ramkumar M, Assesment of seawater intrusion in coastal Region at Pudukkottai District (M.E Environmental Engineering, Mach 2021).
2. Gowthaman.M, A model study on water quality and public aspects of heritage city in srirangam (M.E Environmental Engineering, Mach 2021).

3. Mithuna R, Investigation of emission levels of evolving gases from a food waste using IOT on different degraders (M.E Environmental Engineering, May 2020).
4. Gandhimathi S, Qualitative analysis of leachate contamination for different phases of landfill setup and it's treatment by using cantaloupe seed (M.E Environmental Engineering, May 2020).
5. Vijayaragavan, Analysis the behavior of PSC Pole cast with rubber partially as fine aggregate in concrete (M.E Structural Engineering, May 2020).
6. Ajithkumar.T, "Assessment of Bio-medical liquid waste management system in a Bio-medical facility." (M.E Environmental Engineering, May 2019).
7. Kavina.S , "Design of prototype reactor for chrome plating bath wastewater treatment using metal scraps" (M.E Environmental Engineering, May 2019).
8. Koteswaran.S, "Green synthesis of nanoparticles and its application in dye effluent treatment plant" (M.E Environmental Engineering, May 2019).
9. Santhoshkumar.M, "Assessment of air pollution by using urban vegetation" (M.E Environmental Engineering, May 2019).
10. Meenakshi. N., "An Experimental Investigation on strength of high performance concrete containing supplementary cementing materials" (M.E Structural Engineering, May 2019).
11. Anupriya.C, Removal of oil spill from sea water using Novel adsorbents (M.E Environmental Engineering ,June 2018).
12. Saron.J, Optimization removal of colour and organic solid pollutants from textile industry wastewater by Electro coagulation (M.E Environmental Engineering ,June 2018).
13. Yogesh Prabu.C, Studies on partial replacement of clay by waste tire chips in landfill liner (M.E Environmental Engineering ,June 2018).
14. Venkatesh K , "Experimental investigation on flexural behavior of concrete beam with Hybrid fibre (M.E Structural Engineering June 2018).
15. Nithya .MN , Microbial degradation of pharmaceutical wastewater by bacterial strains isolated from the effluent (M.E Environmental Engineering ,June 2017).
16. Saranya.S , Potential utilization of organic waste by vermicomposting (eudrilus eugeniae) saranya (M.E Environmental Engineering ,June 2017).
17. Vidhya.V, "photocatalytic removal of organic pollutant from wastewater by using nanocomposite materials "(M.E Environmental Engineering ,June 2017).
18. Nethaji I , "Experimental investigation on concrete by partial replacement of wood ash as cement &palm kernel shell as coarse aggregate (M.E Structural Engineering June 2017).
19. Kanniga S, " Effect Of Silica Fume In Slurry Infiltrated Fibrous Concrete. (M.E Structural Engineering phase-II, June 2016).
20. Maximelia T, " Structural Inspection and Proposal for Retrofitting of Buildings" . (M.E Structural Engineering phase-II, June 2016).
21. Vineetha M, "One Pot Microwave Assisted Synthesis Of Sepiolite-PDMS Nanohybridfor The Effective Removal Of Cono Red Dye" (M.E Environmental Engineering ,June 2016).

22. Maheswari M, " Photocatalytic Removal Of Toxic Pollutant In Effluent Water By Nano Composite Materials(M.E Environmental Engineering ,June 2016).
23. Kumaresan T, " Identification And Comparative Study Of Oil Removing Efficiency Of Bacillus Group Bacteria Isolated From Calcerious Soil" (M.E Environmental Engineering ,June 2016).
24. S.Premkumar,"Experimental study on polymer concrete and Fiber reinforced concrete with conventional concrete. (M.E Structural Engineering phase-II, June 2015).
25. A.Murugesan," Experimental investigation on the partial replacement of coarse aggregate with polystyrene. (M.E Structural Engineering phase-II, June 2015).
26. Peter Alexandar," Influence of bottom ash as replacement of fine aggregates in concrete". (M.E Structural Engineering phase-II, June 2015).
27. P.Vadivel,"Experimental investigation on stell slag concrete using polyesters fibere. M.E Structural Engineering phase-II, June 2015).
28. B.Aarthi,"Synthesis and properties of  $Fe_2O_3$  Nan particle by Co-Precipitation method for removal of Rhodamine B Dye. (M.E Environmental Engineering phase-II,June 2015).
29. K.MohamedIsmail,"Studies on removal of Textile dye bt eco friensly Electro-Fenton method using Ecofriendly Fe(II) and Hydrogen peroxide. (M.E Environmental Engineering phase-II,June 2015).
30. R.Suchithra, "Watershed impact assement using remote sensing and GIS application. (M.E Environmental Engineering phase-II,June 2015).
31. S.Sathishkumar ,"Salinity Dispersion studies in Ennore Creek. (M.E Environmental Engineering phase-II,June 2015).
32. A.Ponraj, "Feasibility study on strength of concrete on partial replacement of cement using seashell ash " (M.E Structural Engineering phase-II, June 2014).
33. S. Palaniappan, "Experimental investigation on self compacting concrete using marble powder and silica fume " (M.E Structural Engineering phase-II, June 2014).
34. C.S ManeeshKumar,"An Experimental study on the strength of concrete produced with waste ceramic title as aggregates" (M.E Structural Engineering phase-II, June 2014).
35. Balachanadar.P , "An experimental study on partial replacement of cement by chalcedony" (M.E Structural Engineering phase-II, June 2014).
36. M.B Shanmuharajan, "A Modeling based study on impact of leachate on groundwater quality – at sorathur, thuraiyur" (M.E Environmental Engineering phase-II,June 2014).
37. A.Kowsalyadevi, "Batch and column biosorption studies for removal of hexavalent chromium using raw curcurbitapepo peel" (M.E Environmental Engineering phase-II,June 2014).
38. R. ArunRaj , "Assessment of Environmental impacts of strengthening and four laning of SH79 from stretch malliyakarai of Erode " (M.E Environmental Engineering phase-II,June 2014).
39. S.Thilagavathy, "Environmental impact of municipal sewage waste at Karaikudi municipality" (M.E Environmental Engineering phase-II ,July 2013)

40. S.lakshminarayanan, "A batch and column studies on adsorption of nickel (ii) by using redmud and fly ash" (M.E Environmental Engineering phase-II, July 2013)
41. M.chandrasekaran,, "Flexural strength of RCC beam by partial replacement cement with aluminum industry waste " (M.E Structural Engineering phase-II ,July 2013)
42. S.Sasikumar , "Experimental studies of compacting in concrete using steel fiber" (M.E Structural Engineering phase-II, July 2013)
43. K.Bhuvaneswari, "Batch and column study on Adsorption of Nickel using Foundry sand" (M.E Environmental Engineering phase-II, May 2012)
44. M.Rajeswari, "Decolorization of Dye effluent by using Microbial Methods "( M.E Environmental Engineering phase-II, May 2012)
45. R.Raja, "studies on concrete using granite waste powder."( M.E Structural Engineering phase-II ,May 2012)
46. S.Kannan, "Strength and durability of concrete by replacing fine aggregate by pond ash and cement by silica fume"( M.E Structural Engineering phase-II ,May 2012)
47. S.ShanmugaSundraboopathy, "Characteristic study of concrete using coconut coir pith ash"( M.E Structural Engineering phase-II, May 2012)
48. S.Raguraman, "Flexural behavior of Reinforced concrete beams using high volume fly ash concrete confinement in compression zone"( M.E Structural Engineering phase-II ,December 2011)

#### **Bachelor of Engineering Guidance - 66**

1. Ranjith Kumar J, Sundhar E and Ramya S "Emission of greenhouse gases (GHG) in paddy field" (April 2021).
2. Sivakavi T, Thenmozhi A, Saravanan A and Liston fermi C, "Experimental study on threaded joints in reinforcement" (April 2021).
3. Sethu Raja P, Tharani S, Vijayalakshmi S and yasar arabath S, "Manufacturing of geopolymer brick using silicate" (April 2021).
4. Sankar A, sivasankari B, Kiruba T and sivaramakrishnan T, "A novel approach of removal of fluoride in groundwater;a case study at Tamilnadu" (April 2021).
5. Ariharan M , Bharath V, Dhivakar V and Dhivyappriya S, "Experimental investigation of broken tiles as replacement of coarse aggregate" (April 2021).
6. Bharathi S and Hariharan T, "study and strength behaviour of recycling scrap concrete" (April 2021).
7. Gopikrishna J ,Pragathi A. Saminathan B and Sivabalan J, "Experimental study on the behaviour of red soil cement concrete along with nylon fibre" (April 2021).
8. Gopikrishna J ,Pragathi A. Saminathan B and Sivabalan J, "Experimental study on the behaviour of red soil cement concrete along with nylon fibre" (April 2021).
9. Anandh. S, Dhivakar. V, Nethaji. and Rinee. S, "Assessment of ground water quality along kollidam river in kumbakonam municipality" (April 2021).
10. P.Anusuya, R.Bruntha , P.gowthama and P.Vetriarsan, "catalytic degradation of organic dyes using green synthesis of silver nano-particles from ficus religiosa tree bark" (June 2020).

11. M. Shakul hameed , R.Balraj, S.Karthick and S.Anbalagan, "Demographic and land use, land cover change at kodayar river basin using GIS" (June 2020).
12. Vignesh. V, Niruja. R, Monisha. N and Punithavathi. G, "Experimental investigation on addition of waste tyres in rigid pavement" (June 2020).
13. Prasanth S, Thanush kumar G, Soorya K and Kalidoss D, "A study on mechanical properties of high strength fibre reinforced concrete" (June 2020).
14. P.Arul Kumar, G. Karan, L.Pasupathy and M.Periyasamy, "Experimental studies on concrete by using hemp fibre" (June 2020).
15. Jeeva. A , Kalpana.M Keerthana. D and Manikandan. G, "Experimental study of self healing concrete by using bacteria (Bacillus Subtilis) mix concrete" (June 2020).
16. Aswin Raj M, Ramachandran K , Mujahith aslam A, Vasu M, "Effect of Marble powder on strength parameters of concrete using Silica fume" (April 2019).
17. Gurunathan C, Manikumar D, Thirumugilan T, Sathamhussain A, "Sustainable development of integrated Environmental issues Based on Nanotechnology" (April 2019).
18. Ezhilarasan R, Gayathri S, Jinisha R, Myla S M, "Preliminary investigation of Marble and Limestone dust as additives in cement structure"(March 2019).
19. Balaganapathi K, Daniel A, Shruthi A, Mathanraj P, "Textile dyeing waste water treatment"(March 2019).
20. Archana A, Prakash R, Prasanth J, Sivananthini S, "Experimental Investigation on concrete by using ceramics" (April 2018)
21. Rajadurai C, Rajkumar E, Thamodhiran S, Vignesh R, "Experimental study on Jute fiber Concrete" (April 2018).
22. Kaviyarasan A, Krishnamoorthy M, Sanmugasakkaravarthy M, "Green Building material-Solar tiles" (April 2018).
23. Ajithkumar P, Inbarasan K, Karthikeyan V, Nirmalraj K, "Experimental study on Basalt Fiber Concrete" (April 2018).
24. Sandhiya. R, Sendhamarai E, Arun Kumar P.S, Rettamalai P, "Static and Dynamic Properties of soil stabilized with Industrial Waste" (April 2018).
25. Priyanga.M, .Priyanka.V, "Strength and Behavior of In filled Concrete Tubes in Compression (April 2018).
26. Sandhiya R, Sendhamarai E, Arun Kumar P.S, Retamalai P, Static and Dyamic Properties of Soil Stabilized with Instrial waste" (April 2017).
27. Priyanga M, Priyanka V, Strgth and Behaviour of infilled concrete tube in Compression" (April 2017).
28. Arjun.A,Imran.U,Nova.J, " Experiental Investigation On Addition Of Groundnut shell Powder In Concrete"(April 2016).
29. Jayakumar V, K.Kalaiselvan, Selvaraj R, " Physio Chemical Analysis Of River Water At Mudikondan River"(April 2016).
30. Manimegalai k, Nithya.c, Shalini.S, Thenaruvi.R, "Environmental Investigation of Surface and Ground Water For Irrigation Use" (April 2016).

31. Dharaniprabha.M, Jayanthi.R, Kaleeswari.K, Kaniselvi.P, “Reuse Of Waste Glass In Brick Production”(April 2016).
32. Adiyaman.A, Smbudurai.S, Arumbu.R, Gopi.R , “Water Balance Study On Iluppur Watershed ”(April 2016).
33. Sivasankari.J, Shornambigai.M, Jayalakshmi.V, “Stabilization Of Clay Soil Using Lime”(April 2016).
34. Ahalya L.K., R.Marikani,A.Saravanan,RajSivadarsan ,”Soft speed Analysis for road safety”(2015).
35. Chandramouliswaran.C, Dharanithan N.R, Dhivakar.M,R,Sundharam ,”Pavement Maintenance Management system in Tiruchirappalli”(2015).
36. Dhivyabarthi,G.RajaSwedna, V.Ramakrishnan,V.Sivanesan,,” Analysis of Octagonal shaped Multistory commercial complex” (2015).
37. JencyCharmichel,G.Raveendiran.S, S.Revathi,K.Ishwarya , “ Impact on agriculture due to climate change” (2015).
38. Narmadha.E, Nivethitha.M and Nivethitha.R.V , “ Estimation of Deslitting supply channel to Anaicut” (2015).
39. NishanthKumar.K, Prabu.K, Praseep.B,Prakash.S ,”Experimental investigation on addition of propylene fiber in light weight concrete ”(2015).
40. Usha P.,S.Latha,M.Praneedha,R.C.Ramya, Estimate of Desilting tank at Sorriyur Village (2015)
41. Thillaiselvan.L, Uma Maheswari,J, Varun.K.V, KanagaRaj.T ,” Analysis of Methane production using kitchen waste” (2015).
42. Maheswari.C,Meena.S, Nandhini@Suguna.R, Prathebha.M, “Study of drought and analysis in kannanurvilage”(2014).
43. Rajesh.K, Karthick.S, Shankar DhayalSharma.P, SarathKumar.N, “Experimental investigation concrete on coarse aggregate with replacement by granite waste ”(2014).
44. SenthilKumar.C, Sophia.M, Sri Krithiga.R, Thivya.S.R, “Redesigning and widening of Thirumayam-Virachilaipanayapatti road MD1007” (2014).
45. Sivakami.C, SriShanmugaPriya.V, Vasuki.D, Gowri.S, “Design and cost analysis of an ayurvedic hospital building ” (2014).
46. Agnel.A, AjithKumar.U, Akshayaraj.R.T, AneeshFathima.M, “Status of water quality in Nagapattinam district” (2014).
47. Ashwin.M, Karthikeyan.V, Prakash.V, Sundaravel.S, “Inflow outflow studies of upper anicut at Tiruchirappalli” (2014).
48. Azhagammai.S, Mohanapriya.K, QueenShulamite.P, Shanmugapriya.K, “Design and analysis of multi storey building” (2014).
49. Chakravarthy.D, Manikandan.K, Murugan.N, Ramesh.A, “Study of sea water intrusion on ground water AvudaiyarkovilPudukkottai” (2014).
50. Prabhu, P., Thiruchselvam, M., Vadivazhagan, B.”Water quality in Thiruvarur District(2014-Tamil medium)
51. Manoharbhath, U.,Nisha, S. Vairavasundarai, R.”Artificial recharge of ground water by using design of check dam method across Thalugai river Naganallur village at Thurayurtaluk”, (2014-Tamil medium)



52. Bhuvaneshwari, S., Ramya, B., Vinodhini, V., Sewage water treatment plant in Thuraiyur municipality (2014-Tamil medium)
53. Arunkumar, P. Priya, K., Saravanakumar, M., Abinaya, V., "Ground improvement techniques using low density polyethylene" (2014-Tamil Medium)
54. Ananthi, V., Elakkiya, M., Heera, V., Rajalakshmi, M., "sustainable study on reused pet bottle and construction waste" (2014-Tamil Medium)
55. Jeevanantham. G, Ramasamy. V, Ramesh. K, Udayasekar K T, "Stabilization of soil using bentonite" (2014-Part time).
56. Backiaraj. J, Kannan S, Navaneethakrishnan.R, Paramasivam. P, "Design and analysis of flexible pavements(2014-Part time)..
57. K. Iswarya, P. Janarthanan, M. Lakshmi, "Waste water analysis and treatment in BHEL, Tiruchirappalli" (2013)
58. G. Dhanalakshmi, P. Jayapradha, K. Ranjini, V. Vima, "Analysis and design of Arch dam in Namakkal" (2013).
59. A. Aarthiponmani, F. Anithamary, P. Panthipreetha, P. Kamalavasan, "Effective management of Biomedical waste ash from incinerator" (2013).
60. R. Sailakshmi, M. Selva Rani, S. Shiny, P. Yogapriya, "Ground water quality analysis at Thiruvarangam", Tiruchirappalli" (2013).
61. A. Sathiyamoorthy, S. Damodharan, K. Elumalai, B. Ravikumar, "Experimental study of greener concrete using fused submerged Arc welding flux waste" (2013-P.T B.E).
62. A. Algau Sundram, M. Maraijeyanth Christu Raj, R. Padmanaban, C. Pannerselvam, "Use of broken class material as course aggregate for concrete" (2013-P.T B.E).
63. K. Arokiyadoss, Arun Jesudoss. C, Shanmugasundaram. Nand Sridhar. A, "Proposed construction of sewage treatment plant at Anna university of Technology, Tiruchirappalli" (2012-P.T B.E)
64. B. Balaji, Dhivyabharathi. S, Lidhuveniya. K. S. S and Sylvester martin. F, "water quality assessment in senthanneerapuram, Tiruchirappalli" (2012)
65. A. Arockia Amalraj, A. Jan Mohamed Khan, K. Jegan and A. Prasannan, "Ground water yield analysis in Agniyar river basin at perungalur village in Pudukkottai district" (2011-P.T B.E)
66. B. Vanchinathan, S. John Britto, S. Prabhakaran "Studies on effect of bio medical waste in clay liner materials" at SASTRA University (2007)

#### **AMIE Guidance – 2**

1. R. Rajarajeswari, "study on strength behavior of concrete using foundry sand" (2013).
2. M. Selvaraj, "Studies on ground water quality in and around tannery industries in Trichirappalli, Tamilnadu" (2010).

#### **Ph.D Examiner :2**

1. Mr. B. Haganesh Ph.D scholar at Karpagam Academy of Higher Education under Guidance of Dr. N. Bala Sundram (22.09.2021)

2. Mr.P.Siva kumar Ph.D scholar at Karpagam Academy of Higher Education under Guidance of Dr.N.Bala Sundram (22.04.2021)
3. Mr.T V Arul Prakash Ph.D scholar at Karpagam Academy of Higher Education under Guidance of Dr.M.Natarajan(24.07.2020)

**Ph.D Oral Examination board member :4**

1. Mr.R.Eilies Yogesh, Faculty of Civil Engineering, Anna University under Guidance of Dr.V.Sekaran and Dr.J.Jegan.(24.01.18)
2. Ms.R.Umamaheswari Faculty of Civil Engineering, Anna University under Guidance of Dr.G.Elangovan(17.11.17 )
3. Ms.P.Arulmathi, Faculty of Civil Engineering, Anna University under Guidance of Dr.G.Elangovan(21.10.16 )
4. Mr.J.Vijayaragaven, Faculty of Civil Engineering, Anna University under Guidance of Dr.J.Jegan.(12.01.16 )

**Ph.D Synopsis Viva-Voce member :1**

1. Mr.P.Manikandan Ph.D scholar at Faculty of Civil Engineering, Periyar Maniamni University under Guidance of Dr.S.Senthamil Kumar

**Present Doctorial Committee Member : 09**

1. Mrs.Pratheba Ph.D scholar at Karpagam Academy of Higher Education under Guidance of Dr.G.R. Vijay snakar .(24.02.22 - on words)
2. Mr.Caharles Dyson Ph.D scholar at Karpagam Academy of Higher Education under Guidance of Dr.G.R. Vijay snakar .(12.09.21 - on words)
3. Mr.V Ravisankar Ph.D scholar at Karpagam Academy of Higher Education under Guidance of Dr.M.Natarajan .(12.08.21 - on words)
4. Mr.Shanmuharajan MB Ph.D scholar at SRM Institute of Science and Technology under Guidance of Dr.Aparna S .(8.12.2020 - on words)
5. Mr.Gopinath R Ph.D scholar at Hindustan Institute of Technology & Science under Guidance of Dr.Jessy Rooby (12.10. 2020 - on words)
6. M.Vijayapraksh M Ph.D scholar at Faculty of Civil Engineering, Anna University under Guidance of Dr.V.Rajagopalan (11.12.17 - on words)
7. K.Ramaganesan ,Ph.D scholar at Faculty of Civil Engineering, Anna University under Guidance of Dr.P.Mani.(18.07.17 - on words)
8. T.Balachandran,Ph.D scholar at Faculty of Civil Engineering, Anna University under Guidance of Dr.T.Bhagavathi Puspha.(21.06.17 - on words)

9. Nimmagaddi Venkata Rao ,Ph.D scholar at School of Civil and Chemical Engineering VIT University under Guidance of Dr.T.Meena .(31.3.16 - on words)
10. R.Tamilalagn,Ph.D scholar at Faculty of Civil Engineering, Anna University under Guidance of Dr.R.Tamilarasan.(20.09.16 - on words)

**M.S Committee Member: 1**

1. Mrs Mercy , M.S Scholar at CEESAT , National Institute of Technology Truchirappalli.under Guidance of Dr.M.Premalatha(08.07.2013 - on words)

**Journal: Editorial Board :12**

1. Editorial board member of The Global Environmental Engineers.
2. Reviewer for Environmental Monitoring and Assessment, Springer publication.
3. Reviewer in Journal of Environmental Chemical Engineering, ELSEVIER Publication
4. Reviewer in Desalination and Water Treatment
5. Reviewer in Chemical Industry and Chemical Engineering Quarterly, Association of Chemical Engineers, Serbia.
6. Reviewer of Journal of Environmental Monitoring
7. Reviewer in journal of Civil Engineering and construction Technology
8. Reviewer in Journal of Soil Science and Environmental Management
9. Reviewer in African Journal Pure and Applied Chemistry
10. Reviewer in Journal of Water, Sanitation and Hygiene for Development
11. Reviewer in African Journal of Environmental science and Technology.
12. Reviewer for Special Issue on Solid Waste Management in International Journal of Environment and Waste Management.

**Advisory Committee and Reviewer in National/ International Conferences: 12**

1. Member in Indian Geotechnical Confrence 2021-Geotechics for infrastructure Development and innovative applications on 16<sup>th</sup> to 18 December , 2021 at IGS Trichy Chapter and National Institute of technology Tiruchirappalli , Tamil Nadu.
2. Techical Review committee meber in Eight national Conference on Recent Advancements in Geotechnical Engineering organized by Bannari Amman Institute of Technology , Sathyamangalam in Association with IGS Coimbatore Chapter on March 26 2021
3. Advisory committee member E-National Conference on “Emerging trends and advanced Technologies in Civil Engineering ” on 19<sup>th</sup> March, 2021 at Kings College of Engineering, Tamil Nadu.
4. Advisory committee member Virtual National Conference on “Artificial Intelligence in Mechnaical and Civil Engineering ” on 4<sup>th</sup> July , 2020 at SRM TRP Engineering College , Tamil Nadu.

5. Advisory committee member National Conference on “Innovative Trends and advances in Civil Engineering ” on 19<sup>th</sup> March, 2019 at Kings College of Engineering, Tamil Nadu.
6. Advisory Board member for National conference on Research Advancemnets in Civil Engineering MAM Engineering college ,6<sup>th</sup> March 2019.
7. Advisory committee for National conference on recent advanced in Civil Engineering RACE'18, Sudharsan Engineering college ,12<sup>th</sup> March 2018.
8. Advisory committee for National conference on Technical Innovation and Research in Civil Engineering, M.Kumarasamy college of Engineering ,25<sup>th</sup> March 2017.
9. Advisory committee for National conference on Modern Infrastructure Developmente through sustainability ,M.Kumarasamy college of Engineering ,17<sup>th</sup> March 2016.
10. National Review board member International conference (ICCMEET), SVS College of Engineering, Coimbatore, 26<sup>th</sup> and 27<sup>th</sup> February 2016.
11. Technical Committee member International Conference on “Emerging Trends in Engineering, Technology and Science” (ICETETS-2016) 2016 to be held on 24<sup>th</sup> – 26<sup>th</sup> February 2016 at Kings College of Engineering, Tamil Nadu.
12. Advisory committee member National Conference on “Trends & Innovation in Civil & Mechnaical Towords 2020 (NCTICM'2K15) on 26<sup>th</sup> September , 2015. at Vel Tech Muti Tech Dr.RR Dr.S.R Engineering college,chennai, Tamil Nadu.
13. Advisory panel of 25<sup>th</sup> IPHE national convention on ‘Environmental Engineering & 3<sup>rd</sup> International conference and Exhibition ENVISION 2025 jointly organized by IPHE, Chennai-Pondicherry Regional Center and CLRI at Central Leather Research Institute, Chennai, 12<sup>th</sup> to 14<sup>th</sup> March 2014.
14. Technical committee member National Conference on “Recent Trends in Civil Engineering towards Sustainable Development” (NC- RTCESD'15) on 9<sup>th</sup> March, 2015. at Kings College of Engineering, Tamil Nadu.
15. Reviewer in 3<sup>rd</sup> International Conference (CUTSE 2011) Innovative Green Technology for Sustainable Management held at Curtin University, Sarawak, Malaysia, 8<sup>th</sup> and 9<sup>th</sup> November 2011.