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## Present Position

Professor, Department of Geology, College of Engineering Guindy, Anna University, Chennai from December-2015.

## Previous Additional Responsibility

- Chief Superintendent, Post Graduate Exams, Geology, Anna University, Chennai during July-2010 and June-2011.
- Chief Superintendent, Tancet-2009, Govt. College of Engineering, Salem, Anna University, Chennai during May-2009 and May-2009.
- Chief Superintendent, Anna University Chennai Exam, Govt. College of Engineering, Salem, Anna University, Chennai during November-2008 and December-2009.
- Placement Officer, Govt. College of Engineering, Salem, Anna University, Chennai during July-2008 and December-2009.
- Canteen In-charge, Govt. College of Engineering, Salem, Anna University, Chennai during December-2007 and July-2008.
- Secretary, Cooperative Society, Govt. College of Engineering, Salem, Anna University, Chennai during July-2007 and August-2008.
- District Organiser, Youth Red Cross, Govt. College of Engineering, Salem, Anna University, Chennai during September-2005 and July-2008.
- District Organiser, Youth Red Cross, Govt. College of Engineering, Tirunelveli, Anna University, Chennai during September-2004 and December-2004.
- Deputy Warden, Govt. College of Engineering, Tirunelveli, Anna University, Chennai during February-2003 and December-2004.
- Programme Officer, National Service Scheme, Govt. College of Engineering, Tirunelveli, Anna University, Chennai during July-2002 and December-2004.

## Other Employment

- Associate Professor, College of Engineering Guindy (CEG), Anna University, Chennai for 3 Years.
- Assistant Professor (Reader), College of Engineering Guindy (CEG), Anna University, Chennai for 3 Years.
- Senior Lecturer, Government College of Engineering (GCE), Salem under DoTE for 4 Years 4 Months 6 Days.
- Lecturer, Government College of Engineering (GCE), Salem under DoTE for 7 Months 8 Days.
- Lecturer, Government College of Engineering (GCE), Tirunelveli under DoTE for 3 Years 4 Months 23 Days.

## Degree

- ❖ M.E. in Environmental Engineering, V.M.K.V Engineering College, Salem, India (First Class with Distinction & Gold Medal) (2008 - 2011).
- ❖ M.Sc. in Applied Geology, College of Engineering Guindy (CEG), Anna University, Chennai (First Class with Distinction & Gold Medal) (1997 - 1999).
- ❖ B.Sc. in Applied Geology, College of Engineering Guindy (CEG), Anna University, Chennai (First Class with Distinction & Gold Medal) (1994 - 1997).

## Research Degree

- ❖ Ph.D. in Hydrogeology, College of Engineering Guindy (CEG), Anna University, Chennai (Highly Commended) (2002 - 2005).  
Title: Identification of Hydrogeochemical Processes.
- ❖ M.phil. in Geology, Guindy Campus, University of Madras, Chennai (First Class Outstanding) (2000 - 2001).  
Title: Geochemistry and Evolution of Syenites.

## Area of Specialisation

- Engineering Geology
- Hydrogeology (Groundwater Engineering)
- Geospatial Technology (Remote Sensing & GIS)
- Environmental Engineering

## Membership in Professional Organization

- Life Member in Indian Society for Technical Education (ISTE)
- Life Member in Mineralogical Society of India (MSI)
- Life Member in Indian Society of Remote Sensing (ISRS)
- Life Member in Mining Engineers' Association of India (MEAI)
- Life Member in Indian Ecological Society (LM-454)

## Research Guidance

Number of Ph.D Scholars Guided : 13  
Number of Ph.D Scholars Guiding : 6

## Papers Published in Journals

Research Papers Published in International Journals : 92  
Research Papers Published in National Journals : 10

1. T.Subramani, V.Rammohan, Toshiro Morikiyo and S.Srinivasalu, "Geological and Geochemical Characteristics of Alkaline Rocks of Koratti, Sundamalai and Yelagiri Plutons, South India", Journal of Indian Mineralogist , Vol. 37, Issue 2, pp. 1-21 (2003).
2. T.Subramani, L.Elango and S.R.Damodarasamy, " Groundwater quality and its suitability for drinking and agricultural use in Chithar River basin, Tamil Nadu, India", Environmental Geology (ENGE), published by Springer (IF = 1.026). Vol. 47, pp. 1099-1110 (2005).
3. T.Subramani, L.Elango, S.Srinivasalu and Toshiro Marikio, "Geological setting and groundwater chemistry in Chithar River basin, Tamil Nadu, India", Journal of Indian Mineralogist , Vol. 39, Issue 2, pp. 108-119 (2005).
4. S.Anandakumar T.Subramani, and L.Elango, "Spatial Variation of Groundwater Quality and Inter Elemental Correlation Studies in Lower Bhavani River Basin, Tamil Nadu, India", Journal of Nature Environment and Pollution Technology , Vol. 6, Issue 2, pp. 235-239 (2007).
5. G.Vennila, T.Subramani and L.Elango, " Rainfall variation analysis of Vattamalaikarai Sub-basin, Tamil Nadu, India", Journal of Applied Hydrology, Vol. 20, Issue 3, pp. 51-60 (2007).
6. S.Anandakumar, T.Subramani and L.Elango, "Spatial Variation and Seasonal Behaviour of Rainfall Pattern in Lower Bhavani River Basin, Tamil Nadu, India", International Journal of The Eco-Scan , Vol. 2, Issue 4, pp. 17-24 (2008).
7. G.Vennila, T.Subramani and L.Elango, "GIS based study on groundwater quality assessment of Vattamalaikarai Basin, Tamil Nadu, India", Journal of Nature Environment and Pollution Technology , Vol. 7, Issue 4, pp. 585-592 (2008).

8. T.Subramani, L.Elango and N.Rajmohan, " Groundwater geochemistry and identification of hydrogeochemical processes in a hard rock region, Southern India", Environmental Monitoring and Assessment (EMAS), published by Springer (IF = 1.436). Vol. 162, pp. 123-137 (2009).
9. S.Anandakumar, T.Subramani and L.Elango, "Major ion groundwater chemistry of Lower Bhavani River Basin, Tamil Nadu, India", Journal of Applied Geochemistry , Vol. 11, Issue 1, pp. 92-101 (2009).
10. S.Hema, T.Subramani and L.Elango, "GIS study on vulnerability assessment of water quality in a part of Cauvery River", International Journal of Environmental Sciences, Vol. 1, Issue 1, pp. 1-17 (2010).
11. N.Rajkumar, T.Subramani and L.Elango, "Groundwater contamination due to municipal solid waste disposal – A GIS based study in Erode City", International Journal of Environmental Sciences , Vol. 1, Issue 1, pp. 39-54 (2010).
12. S.Prabaharan, R.Manonmani, M.Ramalingam and T.Subramani, "Geostatistical modeling for groundwater pollution in Salem. Tamilnadu - A GIS based approach", International Journal of Engineering Science & Technology , Vol. 3, Issue 2, pp. 1273-1278 (2011).
13. S.Prabaharan, R.Manonmani, M.Ramalingam, R.Vidhya and T.Subramani, " Decision of threshold values for extraction of turbidity for inland wetland using IRS P6 LISS III data", Arabian Journal of Geosciences (AJGS), published by Springer (IF = 1.152). Vol. 6, pp. 109-114 (2011).
14. S.Prabaharan, M.Ramalingam, T.Subramani and C.Lakshumanan, " Remote Sensing and GIS tool to detect hydrocarbon prospect in Nagapattinam sub basin, India", Geotechnical and Geological Engineering, published by Springer. Vol. 31, pp. 267-277 (2012).
15. T.Subramani, Savithri Babu and L.Elango, " Computation of groundwater resources and recharge in Chithar River Basin, South India", Environmental Monitoring and Assessment (EMAS), published by Springer (IF = 1.679). Vol. 185, Issue 1, pp. 983-994 (2012).
16. N.Thilagavathi and T.Subramani, "Hydrochemical evaluation of groundwater in mine region, Salem, Tamil Nadu", Pollution Research , Vol. 31, Issue 3, pp. 499-505 (2012).
17. T.Subramani, S.Srinivasalu and R.Nagarajan, " Implication of petrography and geochemistry on engineering properties of building stones", International Journal of Engineering and Physical Sciences, published by World Academy of Science, Engineering and Technol. Vol. 6, pp. 377-382 (2012).
18. N.Thilagavathi and T.Subramani, "Groundwater quality monitoring of mine area using Remote Sensing and Geographic Information techniques", International Journal of Scientific & Engineering Research, Vol. 3, Issue 7, pp. 1-18 (2012).
19. N.Rajkumar, T.Subramani and L.Elango, "Geospatial variation of groundwater quality in Erode City, Tamil Nadu, India", Pollution Research , Vol. 31, Issue 2, pp. 267-271 (2012).
20. S.Prabaharan, T.Subramani, R.Manonmani and M.Ramalingam, " Groundwater contamination due to municipal solid waste disposal in Salem City using GIS", International Journal of Earth Sciences and Engineering (IF = 0.042), Vol. 5, Issue 4, pp. 696-702 (2012).

21. S.Hema and T.Subramani, "Evaluation of surface water quality using multivariate statistical studies in a part of Cauvery River, Tamil Nadu, India", *Pollution Research* , Vol. 31, Issue 1, pp. 57-63 (2012).
22. N.Rajkumar, T.Subramani and L.Elango, " Impact of Leachate on groundwater pollution due to non-engineered municipal solid waste landfill sites of Erode City, Tamil Nadu, India", *Journal of Environmental Health Science & Engineering*, published by BioMed Central (IF = 1.23). Vol. 9, Issue 35, pp. 1-12 (2012).
23. S.Prabaharan, T.Subramani, R.Manonmani and M.Ramalingam, "Satellite lineaments and subtle structures in Cauvery Basin, Tamil Nadu", *International Journal of Remote Sensing and Geoscience*, Vol. 2, Issue 3, pp. 8-11 (2013).
24. S.Arya and T.Subramani, "Rapid assessment of suitability of groundwater for drinking and irrigation purposes", *Pollution Research* , Vol. 32, Issue 2, pp. 321-326 (2013).
25. S.Hema and T.Subramani, " Study of physico-chemical characteristics of surface water using regression analysis of Cauvery River and its tributaries in Tamilnadu, India", *Asian Journal of Chemistry* (IF = 0.355), Vol. 25, Issue 6, pp. 3199-3203 (2013).
26. S.Hema, T.Subramani and L.Elango, "Assessment of surface water quality using multivariate statistical techniques in a part of River Cauvery, Tamil Nadu, India", *Journal of Environmental Science & Engineering*, published by CSIR-NEERI. Vol. 56, Issue 3, pp. 277-282 (2014).
27. R.Arulmozhi, T.Subramani and S.Sukumar, " Mitigation of environmental impacts due to ghat road formation in Palamalai Hills, South India by optimizing cut and fill volumes using GPS and GIS techniques", *Environmental Monitoring and Assessment (EMAS)*, published by Springer (IF= 1.679). Vol. 187, Issue 1, pp. 4094 (1-16) (2014).
28. S.P.Kasiviswanathan, T.Subramani, M.Suresh and D.Karunanidhi, " Morphometric investigations in Kattery Watershed, South India using Remote Sensing and GIS techniques", *Disaster Advances* (IF = 0.3) , Vol. 7, Issue 11, pp. 24-33 (2014).
29. R.Arulmozhi and T.Subramani, " Provisions of cross drainages in ghat road alignment to prevent slope instability - A study in Palamalai Hills, South India using ", *Disaster Advances* (IF = 0.3) , Vol. 7, Issue 10, pp. 39-46 (2014).
30. P.Ramamoorthy, V.Rammohan and T.Subramani, " Spatial analysis of groundwater quality in Varahanathi watershed, Tamil Nadu using GIS techniques", *International Journal of Scientific Research* (IF = 0.3317), Vol. 3, Issue 3, pp. 141-145 (2014).
31. N.Thilagavathi, T.Subramani, M.Suresh and C.Ganapathy, "Rainfall variation and groundwater fluctuation in Salem Chalk Hills area, Tamil Nadu, India", *International Journal of Application or Innovation in Engineering & Management*, Vol. 3, Issue 1, pp. 148-161 (2014).
32. S.Anandakumar and T.Subramani, " Regional groundwater flow modeling in Lower Bhavani River basin, Tamil Nadu, India", *Disaster Advances* (IF = 0.3) , Vol. 7, Issue 12, pp. 41-52 (2014).
33. N.Thilagavathi and T.Subramani, " Physicochemical analysis and quality assessment of groundwater in Chalk Hills, Mine Area, Salem, Tamil Nadu", *Indian Journal of Geo-Marine Sciences (IJMS)* , published by CSIR (IF = 0.316). Vol. 44, Issue 9, pp. 1428 - 1435 (2015).

34. S.Arya, and T.Subramani, " Groundwater flow and fluctuation study using GIS in a hard rock region, South India", Indian Journal of Geo-Marine Sciences (IJMS) , published by CSIR (IF = 0.316). Vol. 44, Issue 9, pp. 1422 - 1427 (2015).
35. T.Subramani, S.Prabaharan and D.Karunanidhi, " Groundwater prospecting in a hard rock terrain, South India using Remote Sensing and GIS", Indian Journal of Geo-Marine Sciences (IJMS) , published by CSIR (IF = 0.316). Vol. 44, Issue 9, pp. 1401 - 1408 (2015).
36. N.Thilagavathi, T.Subramani, M.Suresh and D.Karunanidhi, " Mapping of groundwater potential zones in Salem Chalk Hills, Tamil Nadu, India using remote sensing and GIS techniques", Environmental Monitoring and Assessment (EMAS), published by Springer (IF = 1.679). Vol. 187, Issue 164, pp. 1-17 (2015).
37. N.Thilagavathi, T.Subramani and M.Suresh, " Land use / land cover change detection analysis in Salem Chalk Hills, South India using remote sensing and GIS", Disaster Advances (IF = 0.19), Vol. 8, Issue 1, pp. 44-52 (2015).
38. V.Satheeskumar, T.Subramani, " Preliminary Investigation on Environmental Degradation due to Salinization of River and Groundwater in Thamirabarani Delta, South India", Indian Journal of Geo-Marine Sciences (IJMS) , published by CSIR (IF = 0.316). Vol. 45, Issue 9, pp. 1148 - 1153 (2016).
39. J. Abdul Bari, G.Vennila, T.Subramani, M.Suresh, D.Karunanidhi and T.M. Shanmuga Raja, " Hydrogeochemical investigation of groundwater in Bhavani Taluk, Erode District, Tamil Nadu, India using GIS", Indian Journal of Geo-Marine Sciences (IJMS) , published by CSIR (IF = 0.316). Vol. 45, Issue 9, pp. 1154 - 1161 (2016).
40. R.Arulmozhi and T.Subramani, " Ghat road alignment in Palamalai Hills, Tamil Nadu, India using Ghat Tracer, GPS and GIS", Indian Journal of Geo-Marine Sciences (IJMS) , published by CSIR (IF = 0.316). Vol. 45, Issue 9, pp. 1162 - 1171 (2016).
41. G.Venkatesan and T.Subramani, "Case study on environmental impact due to industrial waste water in Vellore District, Tamil Nadu, India using Geospatial techniques", Middle-East Journal of Scientific Research , Vol. 24, pp. 152-159 (2016).
42. G.Venkatesan and T.Subramani, "Parameter finding for case study of environmental degradation due to industrial pollution in Vellore, Tamil Nadu, India using remote sensing and GIS techniques", International Journal of Science and Innovative Engineering & Technology , Vol. 1, (2016).
43. S.Prabaharan and T.Subramani, " Identification of Micro-Seeps Based on Mineral Alteration in a Part of Cauvery Basin, South India Using Hyperion Data", Indian Journal of Geo-Marine Sciences (IJMS) , published by CSIR (IF = 0.316). Vol. 45, pp. 1138 - 1147 (2016).
44. S.Hema & T.Subramani, "Water quality index of Cauvery River and its three tributaries, South India", Asian Journal of Research in Social Sciences and Humanities, published by Asian Research Consortium. Vol. 6, Issue 10, pp. 761-769 (2016).
45. R. Saravanan, P.D. Arumairaj & T. Subramani, " Experimental model study on ultimate uplift capacity of vertical pile in sand", Water and Energy International, published by Central Board of Irrigation & Power (CSIR). Vol. 60, Issue 1, pp. 58 - 66 (2017).

46. Anand Balasubramanian, Karunanidhi Duraisamy, Subramani Thirumalaisamy, Srinivasamoorthy Krishnaraj and Raneesh Kolladi Yatheendradasan, " Prioritization of subwatersheds based on quantitative morphometric analysis in lower Bhavani basin, Tamil Nadu, India using DEM and GIS techniques ", Arabian Journal of Geosciences (AJGS), published by Springer (IF = 0.955). Vol. 24, Issue 10, pp. 1-18 (2017).
47. S.Prabaharan, C.Lakhumanan & T.Subramani, " Geoscientific study to locate hydrocarbon prospective zones in a part of Cauvery Basin using Remote sensing and GIS techniques", Indian Journal of Geo-marine Sciences (IJMS), published by CSIR (IF = 0.316). Vol. 46, Issue 7, pp. 1447 - 1453 (2017).
48. S. Hema and T.Subramani, "Scientific Methods of Assessing Groundwater for Irrigation Purpose – A Case Study in a Part of Cauvery River Basin, South India", Indian Journal of Ecology, Vol. 44, Issue 2, pp. 185-191 (2017).
49. S.Hema & T.Subramani, "Application of remote sensing & GIS for demarcation of groundwater potential zones in a part of Cauvery River Basin, South India - A case study", Ecology Environment and Conservation, published by EM International. Vol. 23, Issue 1, pp. 217-227 (2017).
50. R.Saravanan, P.D.Arumairaj & T.Subramani, "Experimental Study on the Load Displacement Behavior of Vertical Pile in Sand Under Uplift Load", Journal of Advances in Chemistry, published by CIRWORLD, USA. Vol. 13, Issue 2, pp. 6001-6013 (2017).
51. Sathyapriya Subramanian, P.D.Arumairaj & T.Subramani, " Experimental and modelling study of clay stabilized with Bottom Ash- Eco Sand Slurry Pile", Geomechanics and Engineering, published by Techno-Press Ltd, Korea (IF = 1.107). Vol. 12, Issue 3, pp. 523-539 (2017).
52. T.Subramani, S.P.Kasiviswanathan, C.Nesna & D.Karunanidhi, " Demarcation of landslide vulnerable zones in and around Achanakal, South India using remote sensing and GIS techniques", Indian Journal of Geo-Marine Sciences (IJMS), published by CSIR (IF = 0.316). Vol. 46, Issue 2, pp. 365-370 (2017).
53. R.Manonmani, R.Vidhya & T.Subramani, " Role of multi- scale in land use/ land cover change simulation model – A study in Upper Kodaganar Basin, Tamil Nadu, India ", Indian Journal of Geo-Marine Sciences (IJMS), published by CSIR (IF = 0.316). Vol. 46, Issue 1, pp. 176-189 (2017).
54. R.Saravanan, P.D.Arumairaj & T.Subramani, "Estimation of uplift capacity of vertical Pile in cohesionless soil under uplift load", Eco. Env. & Cons, published by EM International. Vol. 24, pp. 48-50 (2018).
55. G.Venkatesan & T.Subramani, " Environmental degradation due to the industrial waste water discharge in Vellore District, Tamil Nadu, India", Indian Journal of Geo-Marine Sciences (IJMS), published by CSIR (IF = 0.316). Vol. 47, Issue 11, pp. 2255-2259 (2018).
56. P. Karthikeyan, G. Vennila, R. Venkatachalapathy, T. Subramani, R. Prakash & M. K. Aswini, " Assessment of heavy metals in the surface sediments of the Emerald Lake using of spatial distribution and multivariate techniques", Environmental Monitoring And Assessment (EMAS), published by Springer (IF = 1.804). Vol. 190, Issue 668, (2018).

57. R. Saravanan, P.D. Arumairaj & T. Subramani, "A study on behavior of vertical pile in sand under uplift load", *Geotechnical Engineering Journal*, published by SEAGS & AGSSEA. pp. 1-6 (2018).
58. D. Sakthivel, G. Vennila, D.Karunanidhi, K. Srinivasamoorthy, B. Anand & T. Subramani, "Hydrogeochemical characterization and evaluation of groundwater quality in Kangayam taluk, Tirupur district, Tamil Nadu, India, using GIS techniques", *Environmental Geochemistry and Health (EGAH)*, published by Springer (IF = 2.994). pp. 1-23 (2018).
59. S.Arya, G.Vennila & T.Subramani, " Spatial and seasonal variation of groundwater levels in Vattamalaikarai River basin, Tamil Nadu, India - A study using GIS and GPS", *Indian Journal of Geo-Marine Sciences (IJMS)*, published by CSIR (IF = 0.301). Vol. 47, Issue 9, pp. 1749-1753 (2018).
60. S.Prabaharan, C.Lakshumanan & T.Subramani, "Geomorphic Anomalies and Natural Resource of Krishna Godavari Basin Using Remote Sensing Techniques", *International Journal of Earth Science and Engineering*, published by CAFET-INNOVA Technical Society, India. Vol. 11, Issue 1, pp. 35-40 (2018).
61. S.Arya, T.Subramani, G.Vennila & D.Karunanidhi, " Health risks associated with fluoride intake from rural drinking water supply and inverse mass balance modeling to decipher hydrogeochemical processes in Vattamalaikarai River basin, South India", *Environmental Geochemistry and Health (EGAH)*, published by Springer (IF = 3.472). (2019).
62. P. Aravinthasamy, D.Karunanidhi, T.Subramani, B.Anand, P.D.Roy & K.Srinivasamoorthy, " Fluoride contamination in groundwater of the Shanmuganadhi River basin (south India) and its association with other chemical constituents using geographical information system and multivariate statis", *Geochemistry*, published by Elsevier (IF = 2.871). (2019).
63. D.Karunanidhi, P. Aravinthasamy, T.Subramani, P.D. Roy & K.Srinivasamoorthy, " Risk of Fluoride-Rich Groundwater on Human Health: Remediation Through Managed Aquifer Recharge in a Hard Rock Terrain, South India", *Natural Resources Research*, published by Springer (IF 3.708). (2019).
64. P. Aravinthasamy, D.Karunanidhi, T.Subramani, K.Srinivasamoorthy & B.Anand, " Geochemical evaluation of fluoride contamination in groundwater from Shanmuganadhi River basin, South India: implication on human health", *Environmental Geochemistry and Health (EGAH)*, published by Springer (IF = 3.472). (2019).
65. G.Venkatesan & T.Subramani, " Reduction of hexavalent chromium to trivalent chromium from tannery effluent using bacterial biomass", *Indian Journal of Geo-Marine Sciences (IJMS)*, published by CSIR (IF = 0.301). Vol. 48, Issue 4, pp. 528-534 (2019).
66. D. Karunanidhi, P. Aravinthasamy, T. Subramani, Jianhua Wu & K. Srinivasamoorthy, " Potential health risk assessment for fluoride and nitrate contamination in hard rock aquifers of Shanmuganadhi River basin, South India ", *Human and Ecological Risk Assessment (HERA)*, published by Taylor & Francis (IF = 2.412). (2019).
67. B. Anand, D. Karunanidhi, T. Subramani, K. Srinivasamoorthy & M. Suresh, " Long term trend detection and spatiotemporal analysis of groundwater levels using GIS techniques in Lower Bhavani River basin, Tamil Nadu, India", *Environment, Development and Sustainability*, published by Springer (IF = 2.191). (2019).



68. D.Karunanidhi, P. Aravinthasamy, M.Deepali, T.Subramani & Emmanuel Daanoba Sunkari, " Appraisal of subsurface hydrogeochemical processes in a geologically heterogeneous semi-arid region of south India based on mass transfer and fuzzy comprehensive modeling", *Environmental Geochemistry and Health (EGAH)*, published by Springer (IF = 4.609). (2020).
69. D.Karunanidhi, P. Aravinthasamy, T.Subramani, K.G. Balakumar & N. Subhash Chandran, " Health threats for the inhabitants of a textile hub (Tiruppur region) in southern India due to multipath entry of fluoride ions from groundwater", *Ecotoxicology and Environmental Safety (EES)*, published by Elsevier (IF = 6.291). (2020).
70. D. Karunanidhi, P. Aravinthasamy, M. Deepali, T. Subramani, Barbara C. Bellows & Peiyue Li, " Groundwater quality evolution based on geochemical modeling and aptness testing for ingestion using entropy water quality and total hazard indexes in an urban-industrial area (Tiruppur) of Southern I", *Environmental Science and Pollution Research (ESPR)*, published by Springer (IF = 4.223). (2020).
71. G. Venkatesan, T. Subramani, D. Karunanidhi, U. Sathya & Peiyue Li, " Impact of precipitation disparity on groundwater fluctuation in a semi-arid region (Vellore district) of southern India using geospatial techniques", *Environmental Science and Pollution Research (ESPR)*, published by Springer (IF = 4.223). (2020).
72. P. Kalpana, S. Parthiban, P. Gopinathan, T. Subramani, P. D. Roy, S. Gautam & J. Brema, " Spatio-temporal estimation of rainfall patterns in north and northwestern states of India between 1901 and 2015: change point detections and trend assessments", *Arabian Journal of Geosciences (AJGS)*, published by Springer (IF = 1.827). (2020).
73. P. Aravinthasamy, D. Karunanidhi, N. Subba Rao, T. Subramani & K.Srinivasamoorthy, " Irrigation risk assessment of groundwater in a non-perennial river basin of South India: implication from irrigation water quality index (IWQI) and geographical information system (GIS) approaches", *Arabian Journal of Geosciences (AJGS)*, published by Springer (IF = 1.827). (2020).
74. D.Karunanidhi, P. Aravinthasamy, T.Subramani, Manish Kumar, " Human health risks associated with multipath exposure of groundwater nitrate and environmental friendly actions for quality improvement and sustainable management: a case study from Texvalley of Indi", *Chemosphere*, published by Elsevier (IF = 7.086). (2020).
75. D. Karunanidhi, M. Suresh, T. Subramani, B. Anand, " Targeting groundwater potential zones using Electrical resistivity and GIS techniques in Kadavanar Sub-basin, South India", *International Journal of Civil Environmental and Agricultural Engineering*, Vol. 2, Issue 2, pp. 54-73 (2020).
76. C. Saravanan, G. Ponnumani, A. Rajesh Kanna, K. Srinivasamoorthy, R. Prakash, S. Gopinath, C. Babu, F. Vinnarasi, D. Karunanidhi, T. Subramani, " Estimating groundwater inputs from Sankarabarani River Basin, South India to the Bay of Bengal evaluated by Radium (226Ra) and nutrient fluxes", *International Journal of Civil Environmental and Agricultural Engineering*, Vol. 2, Issue 2, pp. 17-32 (2020).
77. G.Venkatesan, T.Subramani, U.Sathya & D.Karunanidhi, " Evaluation of chromium in vegetables and groundwater aptness for crops from an industrial (leather tanning) sector of South India", *Environmental Geochemistry and Health (EGAH)*, published by Springer (IF = 4.609). (2020).

78. D. Karunanidhi, B. Anand, T. Subramani & K.Srinivasamoorthy, " Rainfall surface runoff estimation for the Lower Bhavani basin in south India using SCS CN model and geospatial techniques", *Environmental Earth Sciences (ENGE)*, published by Springer (IF = 2.784). Vol. 79, Issue 335, pp. 1-19 (2020).
79. D. Karunanidhi, P. Aravinthasamy, T. Subramani & G.Muthusankar, " Revealing drinking water quality issues and possible health risks based on water quality index (WQI) method in the Shanmuganadhi River basin of South India", *Environmental Geochemistry and Health (EGAH)*, published by Springer (IF = 4.609). (2020).
80. D.Karunanidhi, P. Aravinthasamy, M.Deepali, T.Subramani & P.D. Roy, " The effects of geochemical processes on groundwater chemistry and the health risks associated with fluoride intake in a semi-arid region of South India", *RSC Advances*, published by Royal Society of Chemistry (IF = 3.361). (2020).
81. V.Satheeskumar, T.Subramani, C.Lakshumanan, P.D.Roy, D.Karunanidhi, " Groundwater chemistry and demarcation of seawater intrusion zones in the Thamirabarani delta of south India based on geochemical signatures", *Environmental Geochemistry and Health (EGAH)*, published by Springer (IF = 4.609). (2020).
82. S.Arya, T.Subramani & D.Karunanidhi, " Delineation of groundwater potential zones and recommendation of artificial recharge structures for augmentation of groundwater resources in Vattamalaikarai Basin, South India", *Environmental Earth Sciences (ENGE)*, published by Springer (IF = 2.784). (2020).
83. D.Karunanidhi, P. Aravinthasamy, Deepak Kumar, T.Subramani & P.D. Roy, " Sobol sensitivity approach for the appraisal of geomedical health risks associated with oral intake and dermal pathways of groundwater fluoride in a semi-arid region of south India", *Ecotoxicology and Environmental Safety (EES)*, published by Elsevier (IF = 6.291). (2020).
84. A.Palanisamy, D. Karunanidhi, T. Subramani & P.D.Roy, " Demarcation of groundwater quality domains using GIS for best agricultural practices in the drought-prone Shanmuganadhi River basin of South India", *Environmental Science and Pollution Research (ESPR)*, published by Springer (IF = 4.223). (2020).
85. S.Arya, T.Subramani, G.Vennila & P.D.Roy, " Groundwater vulnerability to pollution in the semi-arid Vattamalaikarai River Basin of south India thorough DRASTIC index evaluation", *Geochemistry*, published by Elsevier (IF = 2.292). (2020).
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89. D.Karunanidhi, P. Aravinthasamy, P.D.Roy, R.M.Praveenkumar, K.Prakash, S.Selvapraveen, A.Thowbeekrahman, T.Subramani & K.Srinivasamoorthy, " Evaluation of non-carcinogenic risks due to fluoride and nitrate contaminations in a groundwater of an urban part (Coimbatore region) of south India", *Environmental Monitoring and Assessment (EMAS)*, published by Springer (IF = 2.513). (2020).
90. P. Gopinathan, Madhu Jha, Ashok K. Singh, Abhishek Mahato, T. Subramani, Pradeep K. Singh, Vivek Singh, "Geochemical characteristics, origin and forms of sulphur distribution in the Talcher coalfield, India", *Fuel*, published by Elsevier (IF 6.609). (2021).
91. D.Karunanidhi, P. Aravinthasamy, T.Subramani & H. A. H. Chandra Jayasena, "Perchlorate Contamination in Groundwater and Associated Health Risks from Fireworks Manufacturing Area (Sivakasi region) of South India", *Exposure and Health*, published by Springer (IF = 11.422). (2021).
92. D.Karunanidhi, P. Aravinthasamy, T.Subramani, Rohana Chandrajith, N. Janardhana Raju, I.M.H.R. Antunes, " Provincial and seasonal influences on heavy metals in the Noyyal River of South India and their human health hazards", *Environmental Research (ER)*, published by Elsevier (IF = 6.498). (2021).
93. T. Subramani & S. Nancy Priya, "Assessment of groundwater quality for irrigation purpose in river basin, Dindigul, Tamil Nadu", *International Journal of Environmental Analytical Chemistry*, published by Taylor & Francis (IF = 1.628). (2021).
94. D. Karunanidhi, P. Aravinthasamy, T. Subramani, Deepak Kumar, Raj Setia, "Investigation of health risks related with multipath entry of groundwater nitrate using Sobol sensitivity indicators in an urban-industrial sector of south India", *Environmental Research (ER)*, published by Elsevier (IF = 6.498). (2021).
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96. D.Karunanidhi, P.Aravinthasamy, T.Subramani & R.Setia, " Groundwater suitability estimation for sustainable drinking water supply and food production in a semi-urban area of south India: a special focus on risk evaluation for making healthy society", *Sustainable Cities and Society (SCS)*, published by Elsevier (IF = 7.587). (2021).
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98. D. Karunanidhi, P. Aravinthasamy, T. Subramani & Raj Setia, " Effects of COVID-19 pandemic lockdown on microbial and metals contaminations in a part of Thirumanimuthar River, South India: A comparative health hazard perspective", *Journal of Hazardous Materials*, published by Elsevier (IF = 10.588). (2021).
99. P. Aravinthasamy, D. Karunanidhi, K.Sankar, T. Subramani, Raj Setia, Prosun Bhattacharya & Sayani Das, "Covid-19 lockdown impacts on heavy metals and microbes in shallow groundwater and expected health risks in an industrial city of South India", *Environmental Nanotechnology, Monitoring and Management* , published by Elsevier. (2021).

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101. D.Karunanidhi, P. Aravinthasamy, M. Deepali, T.Subramani & K.Shankar, " Groundwater pollution and human health risks in an industrialized region of southern India: Impacts of the COVID-19 lockdown and the monsoon seasonal cycles", Archives of Environmental Contamination and Toxicology, published by Springer (IF = 2.804). (2021).
102. E.Kumar, T. Subramani, Peiyue Li, D. Karunanidhi, "Quantification of health and environmental risks due to radionuclides in limestone mining regions of Ariyalur, South India", Human and Ecological Risk Assessment, published by Taylor & Francis (IF = 5.19). (2021).

## Papers Presented in Programmes

Research Papers Presented in International Programmes : 26  
Research Papers Presented in National Programmes : 26

1. T.Subramani, V.Rammohan, S.Srinivasalu and K.Parthipan, "Regional Structure and Geochemistry of the Syenites of the Koratti Complex, Tamil Nadu, South India" presented in a International level workshop on Carbonatites and Associated Alkaline Rocks, organised by Department of Geology, University of Madras, Chennai, India from 12-Feb-2001 to 18-Feb-2001.
2. V.Rammohan, T.Morikiyo, T.Subramani, T.Miyazaki, S.Srinivasalu and K.Parthipan, "Geochemistry of Syenodiorite-Alkali Syenite series of rocks from Koratti Alkaline-Ultramafic-Carbonatite Complex, Tamil Nadu, South India" presented in a National level seminar on Mineral Exploration and Management, Current Status and Future Trends, organised by Centre for Geoscience and Engineering, Anna University, Chennai, India from 21-Nov-2002 to 22-Nov-2002.
3. T.Subramani, V.Rammohan, S.Srinivasalu and Toshiro Morikiyo, "Geological Investigations and Geochemical Characteristics of Alkaline rocks and associated Minerals of Koratti, Sundamalai and Yelagiri Plutons, South India" presented in a National level seminar on Mineral Exploration and Management, Current Status and Future Trends, organised by Centre for Geoscience and Engineering, Anna University, Chennai, India from 21-Nov-2002 to 22-Nov-2002.
4. T.Subramani and L.Elango, "Seawater Intrusion in Coastal Tamirabarani River Basin, Tamil Nadu, India" presented in a National level seminar on Geoscience and Environment, organised by Department of Geology, University of Madras, Chennai, India from 27-Jan-2005 to 28-Jan-2005.
5. T.Subramani and L.Elango, "Groundwater Resource Development using Remote Sensing and GIS in a part of Tamirabarani - Pachayar River System" presented in a National level seminar on Geoscience and Environment, organised by Department of Geology, University of Madras, Chennai, India from 27-Jan-2005 to 28-Jan-2005.

6. T.Subramani, L.Elango, S.Srinivasalu and Toshiro Morikio, "Nature of Rocks and Soils on Groundwater Chemistry in Chithar River Basin, Tamil Nadu, India" presented in a National level seminar on Earth Resources and Sustainable Development, organised by Department of Earth Sciences, Annamalai University, India from 23-Feb-2005 to 24-Feb-2005.
7. T.Subramani, L.Elango and C.Sivakumar, "Statistical Correlation of Geochemical Elements and Nature of Groundwater in Chithar River Basin, Tamil Nadu, India" presented in a National level seminar on Earth Resources and Sustainable Development, organised by Department of Earth Sciences, Annamalai University, India from 23-Feb-2005 to 24-Feb-2005.
8. T.Subramani, S.Anandakumar and L.Elango, "Geochemistry and Applicability of Groundwater for Drinking and Irrigation- a study in Lower Bhavani River Basin, Tamil Nadu, India" presented in a National level seminar on Recent Developments and Opportunities in Exploration Geology & Geoinformatics, organised by Department of Geology, Periyar University, Salem, India from 07-Mar-2007 to 09-Mar-2007.
9. T.Subramani, S.Anandakumar and L.Elango, "Groundwater flow pattern in Lower Bhavani River Basin, Tamil Nadu, India" presented in a National level seminar on Recent Developments and Opportunities in Exploration Geology & Geoinformatics, organised by Department of Geology, Periyar University, Salem, India from 07-Mar-2007 to 09-Mar-2007.
10. T.Subramani, L.Elango, S.Srinivasalu and M.P.Jonathan, "Interpretation of Rock weathering from Geochemistry of Soils in Chithar River Basin, Southern India" presented in a International level conference on Paleopedology: Palaeosols, Geomorphic evolution of Landscape and Paleoclimate change, organised by Department of Geology, Anna University, Chennai, India from 10-Jan-2008 to 14-Jan-2008.
11. S.Anandakumar, T.Subramani, and L.Elango, "Major ion groundwater chemistry of Lower Bhavani River Basin, Tamil Nadu, India" presented in a National level workshop on Applied Geochemistry in Environmental Studies, organised by University of Madras, Chennai, India from 08-Feb-2008 to 09-Feb-2008.
12. S.Anandakumar, T.Subramani and L.Elango, "Study on Geochemistry of groundwater in Lower Bhavani River Basin using GIS" presented in a National level conference on Application of GIS in Civil Engineering, organised by Karunya University, Coimbatore, India from 16-Feb-2008.
13. B.Senthil Raj, T.Subramani, and L.Elango, "Generation of DEM using GIS and Nature of Groundwater in Thirumanimuthar River Basin, Tamil Nadu, India" presented in a National level conference on Application of GIS in Civil Engineering, organised by Karunya University, Coimbatore, India from 16-Feb-2008.
14. G.Vennila, T.Subramani, and L.Elango, "Prediction of Surface Runoff and Groundwater Flow Pattern using GIS for Vattamalaikarai Basin, Tamil Nadu, India" presented in a National level conference on Application of GIS in Civil Engineering, organised by Karunya University, Coimbatore, India from 16-Feb-2008.
15. G.Vennila, T.Subramani, and L.Elango, "Spatial variability of Groundwater quality during monsoon climate in Vattamalaikarai Sub-basin, Tamil Nadu using GIS" presented in a International level conference on Groundwater Dynamics and Global Change, organised by University of Rajasthan, Jaipur, India from 19-Mar-2008 to 22-Mar-2008.

16. S.Anandakumar, T.Subramani, and L.Elango, "Long-term study of Groundwater level fluctuation and Hydrogeochemical characterization of Groundwater in Lower Bhavani Basin, Tamil Nadu, India" presented in a International level conference on Groundwater Dynamics and Global Change, organised by University of Rajasthan, Jaipur, India from 19-Mar-2008 to 22-Mar-2008.
17. T.Subramani, N.Rajmohan and L. Elango, "Identification of Rock-water interaction processes in a shallow subsurface hard rock Environment, Southern India" presented in a International level conference on Groundwater Dynamics and Global Change, organised by University of Rajasthan, Jaipur, India from 19-Mar-2008 to 22-Mar-2008.
18. T.Subramani, and L.Elango, "Hydrogeochemical Investigation in Chithar River Basin, Tamil Nadu, India" presented in a National level workshop on Water Resources: Exploration Strategies and Management Issues (Water – 2008), organised by Periyar University, Salem, India from 24-Mar-2008 to 25-Mar-2008.
19. T.Subramani, S.Anandakumar, R.Kannan and L.Elango, "Identification of major hydrogeochemical processes in a hard rock terrain by NETPATH modeling" presented in a National level seminar on National seminar on Earth Resources, Environment and Earth Sciences for Society (Earth – 2009), organised by Periyar University, Salem, India from 05-Feb-2009 to 07-Feb-2009.
20. S.Anandakumar, T.Subramani, R.Nagarajan and L.Elango, "Subsurface Hydrogeochemical processes in Lower Bhavani River Basin, TamilNadu India (ISBN:978-983-441-176-1-1)" presented in a International level conference on 1st International symposium on Geology (ISG1-2009) , organised by Curtin University, Sarawak, Malaysia from 05-Sep-2009.
21. T.Subramani, G.Vennila, R.Kannan and L.Elango, "Identification of Subsurface Hydrogeochemical Processes in a Hard Rock Aquifer, Southern India" presented in a International level conference on Joint International Convention of 8th IAHS Scientific Assembly and 37th IAH Congress, organised by National Geophysical Research Institute (NGRI), Hyderabad, India from 06-Sep-2009 to 12-Sep-2009.
22. S.Anandakumar, T.Subramani, M.Senthilkumar and L.Elango, "Simulation of Regional Groundwater Head in a Hard Rock Aquifer, Southern India" presented in a International level conference on Joint International Convention of 8th IAHS Scientific Assembly and 37th IAH Congress, organised by National Geophysical Research Institute (NGRI), Hyderabad, India from 06-Sep-2009 to 12-Sep-2009.
23. N.Rajkumar, T.Subramani and L.Elango, "Groundwater Contamination due to Municipal Solid waste Disposal - A GIS based study in Erode City" presented in a International level conference on Disaster Management and Mitigation, organised by PSNA College of Engineering & Technology, Dindigul, India from 16-Dec-2009 to 18-Dec-2009.
24. S.Hema and T.Subramani, "Spatial Variation of Surface Water Quality in a part of Cauvery River, Tamilnadu" presented in a International level conference on Disaster Management and Mitigation, organised by PSNA College of Engineering & Technology, Dindigul, India from 16-Dec-2009 to 18-Dec-2009.

25. S.Anandakumar, T.Subramani, L.Elango, "Water Logging Problems in Lower Bhavani River basin, Tamilnadu, India" presented in a International level conference on Disaster Management and Mitigation, organised by PSNA College of Engineering & Technology, Dindigul, India from 16-Dec-2009 to 18-Dec-2009.
26. T.Subramani and L.Elango, "Site Selection for Location of Weir to minimize Salinization of Surface water and Groundwater in Coastal Part of Thamirabarani Basin" presented in a National level seminar on Applied Chemistry in Marine Sciences : Current and Future Trends , organised by Department of Ocean Studies and Marine Biology, Pondicherry University, Brookshabad Campus, Port Blair, Andaman and Nicobar Islands , India from 24-Feb-2010 to 27-Feb-2011.
27. S.Prabaharan, T.Subramani and L.Elango, "GIS based study on groundwater contamination due to municipal solid waste disposal in Salem City, Tamil Nadu" presented in a National level seminar on Environment and Sustainable Development in Mineral Industry and Solid Waste Management, organised by Andhra University, Visakhapatnam, Andhra Pradesh , India from 14-Mar-2011 to 15-Mar-2011.
28. S.Prabaharan, M.Ramalingam, T.Subramani, D.S.Mitra and R.Mani, "Lineaments and drainage based Hydrocarbon exploration in Nagapattinam Sub-Basin of Cauvery Basin, Tamil Nadu" presented in a International level conference on Humboldt Kolleg and International conference on Recent Advancements in Earth Resources Research: The Road to the Future (Earth-Future) , organised by Periyar University, Salem, India from 07-Sep-2011 to 09-Sep-2011.
29. S.Arya, T.Subramani and S.P.Kasiviswanathan, "Implication of geomorphology on occurrence of groundwater in Thirumanimuthar river basin, Tamil Nadu, India" presented in a National level conference on 24th Indian Institute of Geomorphologists & Annual Convention On Coastal dynamics & Geomorphology, organised by Department of Geology, Anna University Chennai, India from 19-Oct-2011 to 22-Oct-2011.
30. S.Prabaharan, T.Subramani and M.Ramalingam, "Geomorphological structures to delineate Hydrocarbon resources in a part of Cauvery Basin using Remote sensing and GIS" presented in a National level conference on 24th Indian Institute of Geomorphologists & Annual Convention On Coastal dynamics & Geomorphology, organised by Department of Geology, Anna University Chennai, India from 19-Oct-2011 to 22-Oct-2011.
31. T.Subramani, C.A.Nesna, S.P.Kasiviswanathan and U.Sathya, "Slope stabilization using eco-friendly geotextiles in Kattery watershed, Ooty, Tamil Nadu, India" presented in a National level conference on 24th Indian Institute of Geomorphologists & Annual Convention On Coastal dynamics & Geomorphology, organised by Department of Geology, Anna University Chennai, India from 19-Oct-2011 to 22-Oct-2011.
32. Savithri Babu, T.Subramani and L.Elango, "Determination of Degree of rock weathering from chemical Index of alteration of soils in Chithar River Basin, Tamil Nadu, India" presented in a National level conference on 24th Indian Institute of Geomorphologists & Annual Convention On Coastal dynamics & Geomorphology, organised by Department of Geology, Anna University Chennai, India from 19-Oct-2011 to 22-Oct-2011.

33. T.Subramani, S.Srinivasalu and R. Nagarajan, "Implication of petrography and geochemistry of commercial granites on engineering properties (ISBN:978-983-44482-2-6)" presented in a International level conference on 3rd CUTSE International Conference on Innovative green technology for sustainable development, organised by Curtin University, Sarawak, Malaysia from 08-Nov-2011 to 09-Nov-2011.
34. S.Prabaharan, D.S.Mitra, M.Ramalingam and T.Subramani, "Hyperspectral study to characterise the hydrocarbon microseepage in Nagapattinam Sub-Basin of Cauvery Basin" presented in a National level seminar on 50 Years of R & D in Hydrocarbon Exploration in India (1962-2011) Kdmipe Golden Jubilee Seminar; Theme: Hydrocarbon Exploration in India: Journey through last 50 years and Vision 50 years Hence, organised by Keshava Deva Malavia Institute of Petroleum Exploration, Dehradun, India from 19-Dec-2011 to 20-Dec-2011.
35. S.P.Kasiviswanathan, U.Sathya and T.Subramani, "Landslide hazard study using remote sensing and GIS in Kattary Watershed, Nilgiris, Tamilnadu, India" presented in a National level seminar on Geospatial Solutions for Resource Conservation and Management (GEOSOL-2012), organised by Karnataka State Remote Sensing Application Centre (KSRAC), Bangalore, India from 18-Jan-2012 to 19-Jan-2012.
36. S.Prabaharan and T.Subramani, "Remote sensing studies to locate the Hydrocarbon prospects in Nagapattinam sub-basin of Cauvery Basin" presented in a National level seminar on Geospatial Solutions for Resource Conservation and Management (GEOSOL-2012), organised by Karnataka State Remote Sensing Application Centre (KSRAC), Bangalore, India from 18-Jan-2012 to 19-Jan-2012.
37. S.Arya and T.Subramani, "Groundwater potential mapping in a hard rock terrain using remote sensing and GIS techniques" presented in a National level seminar on Geospatial Solutions for Resource Conservation and Management (GEOSOL-2012), organised by Karnataka State Remote Sensing Application Centre (KSRAC), Bangalore, India from 18-Jan-2012 to 19-Jan-2012.
38. S.Arya and T.Subramani, "Identification of groundwater potential zones in Vattamalaikarai River Basin, Tamil Nadu, India using Remote sensing and GIS" presented in a International level conference on 8th International Congress on Climate Change, Territorial classification & Socio-Economic Crisis, organised by Bharathidasan University, Tiruchirappalli, India from 23-Apr-2013 to 27-Apr-2013.
39. R.Arulmozhi, T.Subramani and S.Sukumar, "Ghat road alignment in Palamalai hill, Tamil Nadu, India using DGPS and GIS" presented in a International level conference on 8th International Congress on Climate Change, Territorial classification & Socio-Economic Crisis, organised by Bharathidasan University, Tiruchirappalli, India from 23-Apr-2013 to 27-Apr-2013.
40. N.Thilagavathi and T.Subramani, "Physico-chemical analysis of groundwater in Salem Chalk Hills, Tamil Nadu" presented in a International level conference on 8th International Congress on Climate Change, Territorial classification & Socio-Economic Crisis, organised by Bharathidasan University, Tiruchirappalli, India from 23-Apr-2013 to 27-Apr-2013.
41. T.Subramani, "Groundwater Potential Assessment using GIS" presented in a International level seminar on Water and Sustainable Development, organised by Periyar Maniammai University, Vallam, Thanjavur & National Institute of Technical Teachers Training and Research (NITTTR), Chennai, India from 24-Mar-2015.



42. G.Venkatesan and T.Subramani, "Parameter finding for case study of environmental degradation due to industrial pollution in Vellore, Tamil Nadu, India using Remote Sensing and GIS techniques" presented in a International level conference on Science and Innovative Engineering (ICSIE 2016), organised by Jawahar Engineering College, Chennai, India from 03-Apr-2016.
43. G.Venkatesan and T.Subramani, "Case study on environmental impact due to industrial waste water in Vellore District, Tamil Nadu, India using geospatial techniques" presented in a National level conference on Recent Innovations in Engineering, Technology, Management and Applications (RIETMA 2016) , organised by Priyadarshini Engineering College, Vaniyambadi, Vellore, Tamil Nadu, India from 15-Apr-2016 to 16-Apr-2016.
44. V.Satheeskumar and T.Subramani, "Proposal for weir construction to mitigate seawater intrusion in Thamirabarani delta, South India " presented in a International level conference on Environmental Science & Climate Change, organised by Karunya University, Coimbatore, India from 09-Dec-2016 to 10-Dec-2016.
45. S.Hema and T.Subramani, "Groundwater chemistry and its applicability for irrigation purposes - a study in a part of Cauvery River basin, South India " presented in a International level conference on Environmental Science & Climate Change, organised by Karunya University, Coimbatore, India from 09-Dec-2016 to 10-Dec-2016.
46. G.Venkatesan & T.Subramani, "Environmental degradation due to use of industrial waste water for agriculture in Vellore District, Tamil Nadu, India using remote sensing and GIS techniques " presented in a International level conference on Membrane Technology and its applications (MEMSEP-2017), organised by National Institute of Technology (NIT), Tiruchirappalli, India from 21-Feb-2017 to 23-Feb-2017.
47. G.Venkatesan and T.Subramani, "Analysis of Surface Water for Agricultural usage in Palar River basin in Vellore District" presented in a National level conference on 3rd National Conference on Recent Innovations in Engineering, Technology, Management & Applications (RIETMA-2K17) , organised by Priyadarshini Engineering College, Vaniyamabadi, Tamil Nadu, India from 07-Apr-2017 to 08-Apr-2017.
48. G.Venkatesan and T.Subramani, "Groundwater potential and its appropriateness for drinking and agriculture purpose in Vellore District, South India using Remote Sensing and GIS Techniques" presented in a International level conference on Civil, Mechanical, Chemical Engineering and Technologies-2018 (ICCMCT-2018), organised by SVS College of Engineering, Coimbatore, Tamil Nadu, India from 23-Feb-2018 to 24-Feb-2018.
49. R. Karthikeyan, T. Subramani & G. Venkatesan, "Geomedical health risks associated with geogenic gamma radiation and fluoride rich groundwater in Sevathur Carbonatite Complex of South India" presented in a International level conference on Recent advances in conservation and utilization of water (ICRACUW - 2020 - AICTE Sponsored), organised by Sri Shakthi Institute of Engineering and Technology, Coimbatore, India from 26-Aug-2020 to 27-Aug-2020.
50. S. Nancy Priya, T. Subramani & G. Venkatesan, "Categorization of groundwater quality zones using GIS to enhance agricultural practices in the semi-arid Kodavanar River basin of south India " presented in a International level conference on Recent advances in conservation and utilization of water (ICRACUW - 2020 - AICTE Sponsored), organised by Sri Shakthi Institute of Engineering and Technology, Coimbatore, India from 26-Aug-2020 to 27-Aug-2020.

51. S. Amala, T. Subramani, G. Venkatesan & U.Sathya, "Demarcation of non-carcinogenic risk zones based on the intake of contaminated groundwater in an industrial area of northern Tamil Nadu using geospatial techniques " presented in a International level conference on Recent advances in conservation and utilization of water (ICRACUW - 2020 - AICTE Sponsored), organised by Sri Shakthi Institute of Engineering and Technology, Coimbatore, India from 26-Aug-2020 to 27-Aug-2020.
52. P. Gopinathan, Priyadarsi Roy, T.Subramani & D.Karunanidhi, "Detection of iron-bearing mineral assemblages in soils of Nainarmalai granulite region, south India based on satellite image processing and geochemical anomalies" presented in a International level conference on Recent Advances in Water Science and Technology (ICRAWST - 2021), organised by Sri Shakthi Institute of Engineering and Technology, Coimbatore, India from 02-Dec-2021 to 03-Dec-2021.

## Books Published

1. "Book on Earth Resources and Environment - Chapter 29 - Identification of major hydrogeochemical processes in a hard rock terrain by NETPATH modeling " authored by T.Subramani, S.Anandakumar, R.Kannan & L.Elango and published by Research Publishing Services, Singapore (ISBN No. 978-981-08-6942-7).(2013)
2. "Geoinformatics Applications in Disaster Management; Chapter on Demarcation of landslide vulnerable zones in and around Achanakal, South India" authored by Dr.T.Subramani and published by A.E.Publications , Coimbatore (ISBN No.978-93-81972-72-4).(2015)
3. "Edited Journal Volume on Geochemistry of groundwater systems: emerging challenges and opportunities" - 80th edition authored by T.Subramani, K.Srinivasamoorthy and P.D.Roy and published by Geochemistry Journal (Elsevier), Germany (IF = 2.292).(2020)
4. "Editing Journal Volume on "Climate change impact on groundwater potential, recharge, quality and management for urban development"" authored by D.Karunanidhi, K.Srinivasamoorthy, T.Subramani and Shankar Karuppanan, Sofia Barbosa and published by Urban Climate (Elsevier) (IF = 5.731).(2021)
5. "Editing Journal Volume on "Recent advances in Water Science and Technology"" authored by D.Karunanidhi, K.Srinivasamoorthy, T.Subramani and Margarida Antunes, Qingchun Yang and published by Envi Moni and Assess (Springer) (IF = 2.513).(2021)
6. "Edited Journal Volume on Coastal groundwater dynamics, environmental issues and sustainability: A synthesis" authored by D.Karunanidhi, K.Srinivasamoorthy, T.Subramani and Qingchun Yang, Hemachandra Jayasena & K.Shankar and published by Marine Pollution Bulletin, Elsevier (IF = 5.553).(2021)
7. "Edited Journal Volume on Environmental Chemistry, toxicity and health risk assessment of Groundwater: Environmental Persistence and management strate" authored by D.Karunanidhi, K.Srinivasamoorthy, T.Subramani and Qingchun Yang & Saugata Datta and published by Environmental Research , Elsevier (IF = 6.498).(2021)

8. "Edited Journal Volume on Fate and consequences of groundwater contamination" - 80th edition authored by Karunanidhi, Peiyue Li, T.Subramani and K. Srinivasamoorthy and published by Archives of Envi. Cont. and Toxicology (Springer), Int Jour Publishing Envi Rsch (IF = 2.804).(2021)
9. "Edited Journal Volume on Impact of Groundwater Contamination on Human Health" authored by D.Karunanidhi, T.Subramani, P.D.Roy and Hui Li and published by Environmental Geochemistry and Health (EGAH), Springer (IF = 4.609).(2021)
10. "Editing Journal Volume on Perceptions in groundwater contamination, risk assessment and management strategies" authored by D.Karunanidhi, T.Subramani, Hemachandra Jayasena and Margarida Antunes & K. Srinivasamoorthy and published by Envi Sci and Poll Research (Springer IF = 4.223).(2021)

### Sponsored Projects Completed

1. "Approach on Scenario for Interlinking of Indian Rivers using Satellite Remote Sensing and GIS - Students Project", funded by State Council for Science & Technology (TNSCST), Govt.of Tamil Nadu, India.. Project Cost: 4000.00.
2. "Identification of subsurface hydrogeochemical processes in Lower Bhavani River Basin, India", funded by Department of Science and Technology (DST-SERC), Govt. of India.. Project Cost: 1012000.00.
3. "Engineering properties of dimensional stones (Granite); A tool for exploration of construction materials", funded by Centre for Technology Development and Transfer (CTDT), Anna University, Chennai.. Project Cost: 50000.00.
4. "Identification of locations for construction of recharge structures to augment groundwater resources in Chithar River Basin, India", funded by University Grants Commission (UGC), Govt of India.. Project Cost: 686800.00.
5. "Hydroinformatic decision support system for protection of groundwater head in Vattamalaikarai River Basin", funded by Department of Science and Technology (DST), Govt. of India.. Project Cost: 2378000.00.

### Programme Chaired

1. Chairman, International level conference titled "3rd Joint International Conference on Environmental Science & Climate Change" conducted by Karunya University, Coimbatore from 09-Dec-2016 to 10-Dec-2016.
2. Chairman, International level conference titled "Recent advances in conservation and utilization of water (ICRACUW - 2020 - AICTE Sponsored)" conducted by Sri Shakthi Institute of Engineering and Technology, Coimbatore, India from 26-Aug-2020 to 27-Aug-2020.

### Programme Organized

1. Programme Officer, National level Short Course on "National Service Scheme (NSS) Camp at Govt College of Engg, Tirunelveli" from 21-Mar-2003 to 30-Mar-2003.

2. Programme Officer, National level Short Course on "National Service Scheme (NSS) Camp at Govt College of Engg, Tirunelveli" from 06-Sep-2004 to 15-Sep-2004.
3. District Organiser, National level workshop on "Youth Red Cross (YRC) District Level Students Study Camp at GCE, Salem" from 22-Oct-2005.
4. District Organiser, National level workshop on "Red Ribbon Club (RRC) Management and AIDS Awareness at Govt College of Engg, Salem" from 21-Feb-2006.
5. District Organiser, National level workshop on "Red Ribbon Club (RRC) " from 06-Oct-2006.
6. Organiser, National level workshop on "Application and utilization of Advanced Laboratory Equipments at Govt College of Engg, Salem (TEQIP)" from 15-Feb-2007 to 17-Feb-2007.
7. Coordinator , National level Short Course on "Remote Sensing, GIS and GPS applications in Modern Surveying and Environmental Studies at GCE, Salem (AICTE Training)" from 05-Mar-2007 to 09-Mar-2007.
8. Organiser, National level workshop on "GPS and its applications in the field of Surveying at Govt College of Engg, Salem (TEQIP)" from 20-Sep-2008 to 21-Sep-2008.
9. Organiser, National level workshop on "Orientation Programme on GIS and its applications at Govt College of Engg, Salem (TEQIP)" from 06-Nov-2008.
10. Organiser, National level workshop on "Tribal Development Programme on Possibilities of occurrence of Landslides at Palamalai Hills (TEQIP)" from 27-Feb-2009 to 28-Feb-2009.
11. Coordinator, National level Short Course on "Computer applications in Modern Electronic Surveying at GCE, Salem (AICTE Training)" from 05-Oct-2009 to 09-Oct-2009.
12. Principal Investigator, International level workshop on "Recent advancement in online/remote water quality monitoring and management technologies (IGSTC-DST Indo-German) at CEG, Anna University, Chennai" from 02-Feb-2016 to 04-Feb-2016.
13. Organizer, National level Short Course on "DST-NRDMS (Govt of India) Sponsored Training on Geospatial Technologies at CEG, Anna University, Chennai" from 08-Feb-2017 to 10-Feb-2017.
14. Indian Coordinator & Plenary Speaker, International level workshop on "First Bilateral Workshop of the Alliance of Mexican-Indian Geoscientific Opportunities (AMIGOs) on "Water, Climate Change and Disasters & Post-Workshop Fieldwork held at UNAM, Mexico" from 29-May-2019 to 07-Jun-2019.
15. Co-ordinator, National level workshop on "Digital resources for learning research methodology:A researcher's perspectives at CEG, Anna University, Chennai" from 25-Feb-2022.

## Programme Attended

1. Attended a National level Short Course on "Geological Mapping Camp" organized by Geological Survey of India (GSI), Pannappatti, Tamil Nadu, India from 25-May-1998 to 09-Jun-1998.
2. Attended a National level Short Course on "Remote sensing and GIS Applications" organized by State Remote Sensing Application Centre, IWS, Govt. of Tamil Nadu, India from 21-Jul-1998 to 02-Aug-1998.
3. Attended a National level Short Course on "Groundwater Exploration and Quality" organized by Central Ground Water Board (CGWB), Govt of India, Chennai, India from 21-Dec-1998 to 31-Dec-1998.
4. Participated in a International level workshop on "Carbonatites of Tamil Nadu" organized by University of Madras Chennai, Tamil Nadu, India from 13-Feb-2001 to 22-Feb-2001.
5. Attended a National level Short Course on "Orientation Programme for Engineering College Teachers" organized by Technical Teachers Training Institute (TTTI), Chennai, Tamil Nadu, India from 01-Aug-2001 to 08-Aug-2001.
6. Participated in a International level workshop on "Modeling in Hydrogeology" organized by Anna University, Chennai, Tamil Nadu, India from 03-Dec-2001 to 06-Dec-2001.
7. Attended a National level Short Course on "Geological Remote Sensing and GIS (ISRO-NNRMS - Training)" organized by Centre for Geo-Science & Engineering, Anna University, Chennai, India from 07-Oct-2002 to 18-Oct-2002.
8. Attended a National level Short Course on "Geo-resources management (UNESCO - Training)" organized by Anna University Chennai, Tamil Nadu, India from 19-Nov-2003 to 25-Nov-2003.
9. Attended a National level Short Course on "Remote Sensing and GIS (ISRO/Department of Space)" organized by Institute of Remote Sensing (IRS), Anna University, Chennai, India from 09-Feb-2004 to 27-Feb-2004.
10. Attended a National level Short Course on "Modern surveying and Computer applications (AICTE-ISTE)" organized by National Institute for Technical Teachers Training and Research (NITTTR), Chennai, India from 06-Sep-2004 to 17-Sep-2004.
11. Attended a National level Short Course on "Remote sensing and GIS (NNRMS/Department of Space)" organized by Institute of Remote Sensing (IRS), Anna University, Chennai, India from 14-Mar-2005 to 01-Apr-2005.
12. Attended a National level Short Course on "Virtual Instrumentation Based on Lab-VIEW" organized by Government College of Engineering (GCE), Salem, Tamil Nadu, India from 20-Nov-2006 to 21-Nov-2006.
13. Attended a National level Short Course on "GPS Field Training" organized by Elcome Technologies Pvt. Ltd. Chennai, Tamil Nadu, India from 14-Mar-2007 to 17-Mar-2007.
14. Attended a International level Short Course on "Tsunami Detection and Warning System" organized by Autonomous University of Hidalgo State, Pachuca, Hidalgo, MEXICO from 30-Oct-2007 to 20-Nov-2007.

15. Attended a National level Short Course on "Neuro Linguistic Programming for Professional Efficiency" organized by Government College of Engineering (GCE), Salem, Tamil Nadu, India from 28-Feb-2008.
16. Attended a National level Short Course on "Computer Applications in Modern Surveying (AICTE-SDP)" organized by Government College of Engineering (GCE), Salem, Tamil Nadu, India from 05-Oct-2009 to 09-Oct-2009.
17. Attended a National level Short Course on "Isotope Tracer Techniques for Water Resources Development and Management (DST-SERC)" organized by Centre for Water Resources Development and Management (CWRDM), Kozhikode, Kerala, India from 21-Jun-2010 to 26-Jun-2010.
18. Attended a National level Short Course on "Soil Mechanics" organized by Division of Soil Mechanics, Anna University, Chennai, India from 21-Dec-2010 to 29-Dec-2010.
19. Attended a National level Short Course on "Workshop on Isotope Tracers for Water Resources Management" organized by Centre for Water Resources (CWR), Anna University, Chennai, India from 25-Feb-2011.
20. Attended a National level seminar on "Excellence in Technical Education " organized by CEG, Anna University, India from 03-Aug-2011 to 03-Aug-2011.
21. Attended a National level Short Course on "Training on Total Station & DGPS " organized by Elcome Technologies Pvt. Ltd. Chennai, Tamil Nadu , India from 20-Jan-2012 to 21-Jan-2012.
22. Attended a National level Short Course on "Internal Quality Improvement" organized by Anna University, Chennai, Tamil Nadu, India from 18-Feb-2015 to 20-Feb-2015.
23. Attended a International level seminar on "Water and Sustainable Development" organized by Periyar Maniammai University, Vallam, Thanjavur & NITTTR, Chennai , India from 23-Mar-2015 to 24-Mar-2015.
24. Participated in a International level workshop on "Climate Change, Heat Stress and Health" organized by Sri Ramachandra University, Chennai, India from 13-Apr-2015 to 14-Apr-2015.
25. Participated in a International level workshop on "Recent advancement in online/remote water quality monitoring and management technologies (Indo-German)" organized by Department of Mining Engineering, CEG Campus, Anna University, Chennai, India from 02-Feb-2016 to 04-Feb-2016.
26. Attended a National level Short Course on "Faculty Development Programme (FDP)" organized by National Institute for Technical Teachers Training and Research (NITTTR), Chennai, India from 24-Oct-2016 to 26-Oct-2016.
27. Attended a National level Short Course on "DST-NRDMS (Govt of India) Sponsored Training on Geospatial Technologies" organized by Department of Mining Engineering, CEG, Anna University, India from 08-Feb-2017 to 10-Feb-2017.

28. Participated in a International level workshop on "First Bilateral Workshop of the Alliance of Mexican-Indian Geoscientific Opportunities (AMIGOs) on "Water, Climate Change and Disasters & Post-Workshop Fieldwork" organized by Institute of Geology, National Autonomous University of Mexico (UNAM), Mexico City, Mexico from 29-May-2019 to 07-Jun-2019.
29. Participated in a International level workshop on "Global warming and its effects on water and coastal disasters" organized by Bharathidasan University Model College , Vedarenyam, India from 05-Jul-2019.
30. Participated in a National level workshop on "e-Learning and MOOCs in Higher Education " organized by Guru Angad Dev Teaching Learning Centre of MHRD & Anna University, India from 14-Sep-2019 to 14-Sep-2019.
31. Participated in a International level workshop on "Indo-U.S. Bilateral Workshop on Integrated Hydrochemical Modeling for Sustainable Development And Management of Water Supply Aquifers" organized by Sri Shakthi Institute of Engineering and Technology, Coimbatore , India from 02-Jan-2020 to 04-Jan-2020.
32. Participated in a International level conference on "Recent Advances in Water Science and Technology (ICRAWST-2021)" organized by Sri Shakthi Institute of Engineering and Technology, Coimbatore, India from 02-Dec-2021 to 03-Dec-2021.
33. Participated in a National level workshop on "Digital resources for learning research methodology: A researcher's perspectives " organized by Department of Chemistry & EMRC, Anna University, Chennai, India from 25-Feb-2022.

## Special Representations

1. Guest Editor in Geochemistry (Elsevier Journal - Impact Factor = 2.292) from 30-Jun-2019 to 31-Dec-2020.
2. Guest Editor in Urban Climate (Elsevier Journal; IF = 5.731) from 01-Jan-2022 to 31-Dec-2022.
3. Guest Editor in Environmental Moni and Assess (Springer; IF = 2.513) from 15-Dec-2021 to 31-Dec-2022.
4. Guest Editor in Envi Science and Pollution Research (Springer IF=4.223) from 01-Jan-2022 to 31-Dec-2022.
5. Guest Editor in Marine Pollution Bulletin (Elsevier Journal; IF = 5.553) from 01-Jan-2021 to 31-Dec-2021.
6. Guest Editor in Environmental Research (Elsevier Journal; IF = 6.498) from 01-Jan-2021 to 31-Oct-2021.
7. Guest Editor in Archives of Envi. Cont. and Toxicology (Springer IF=2.804) from 01-Apr-2020 to 31-Jan-2021.
8. Guest Editor in Environmental Geochemistry and Health (Springer - IF = 4.609 from 31-Jul-2019 to 31-Jan-2021.

9. Member of Board of Studies in Applied Geology, Government Arts College (Autonomous), Salem from 19-Jan-2021 to 18-Jan-2024.
10. Bharathiar Univ Nominee & Member of Board of Studies in Geology, Government Arts College (Autonomous), Coimbatore from 13-Oct-2020

## Honours

1. "Engineering College Endowment Award and Gold Medal" given by College of Engineering Guindy (CEG), Anna University from India (1996).
2. "University First Rank Award & Gold Medal " given by College of Engineering Guindy (CEG), Anna University from India (1999).
3. "State Level Eligibility Test for Lectureship (SLET)" given by Bharathidasan University, Trichy from India (2000).
4. "Sambuvarayar Endowment Award" given by University of Madras, Chennai from India (2001).
5. "Young Scientist Award" given by Department of Science and Technology (DST) from India (2008).
6. "University First Rank Award & Gold Medal " given by Vinayaka Missions University, Salem from India (2011).
7. "Certificate of Appreciation " given by CURTIN University from Malaysia (2011).
8. "Young Faculty Project Award" given by CTDT, Anna University from India (2011).
9. "Wenlock Endowment Award" given by College of Engineering Guindy (CEG), Anna University, Chennai from India (2018).

## Patents

1. Having a patent for "A method of reduction of Hexavalent Chromium to Trivalent Chromium from Tannery Effluent" awarded by India. (Inventors: G.Venkatesan & Dr.T.Subramani). Patent number: 59252 (13-Dec-2019).

## Experience Abroad

1. Visited Autonomous University of Hidalgo State, Pachuca, Mexico from 30-Oct-2007 to 20-Nov-2007. Purpose of visit : Training on Tsunami Detection and Warning System.
2. Visited National Autonomous University of Mexico (UNAM), Mexico from 29-May-2019 to 07-Jun-2019. Purpose of visit : Indian Coordinator & Plenary Speaker - Mexican-Indian Bilateral Workshop (AMIGOs).

## Invited Lectures



1. Delivered a Lecture on "Remote sensing and GIS applications in Geology & Water Resources" in AICTE-ISTE Staff Development Programme organized by Mepco Schlenk Engineering College , Sivakasi, Tamil Nadu (16-Dec-2002).
2. Delivered a Lecture on "Satellite Remote Sensing" in ISTE Programme organized by Government College of Engineering, Tirunelveli, Tamil Nadu (28-Aug-2003).
3. Delivered a Lecture on "(i) Digital Image Processing (ii) Remote Sensing and GIS in Water Resources development (iii) DGPS & GIS Applications " in AICTE Staff Development Programme organized by Adhiyamaan College of Engineering , Hosur, Tamil Nadu (21-Mar-2006).
4. Delivered a Lecture on "Remote Sensing, GIS and GPS Applications in Civil Engineering" in Faculty Development Programme (FDP) organized by Kongu Engineering College, Erode, Tamil Nadu (16-Jun-2006).
5. Delivered a Lecture on "(i) Elementary Seismology, (ii) Applications of GIS and GPS on Earthquake Damage Assessment" in National Programme for Capacity Building of Engineers in Earthquake Risk Management organized by Government College of Engineering , Tirunelveli, Tamil Nadu (19-Jul-2006).
6. Delivered a Lecture on "(i) Computer Applications in GIS & GPS (ii) Computer Applications in Remote sensing" in Technical Education Quality Improvement Programme (TEQIP) organized by Government College of Engineering , Tirunelveli, Tamil Nadu (18-Sep-2006).
7. Delivered a Lecture on "Groundwater Quality Assessment using GIS - a study in Chithar River Basin" in Workshop for Engineering College Staff (FDP) organized by KSR College of Technology , Tiruchengode, Tamil Nadu (21-Sep-2006).
8. Delivered a Lecture on "Groundwater Quality Assessment using GIS- a study in Chithar River Basin, Tamil Nadu, India" in Quality Improvement Programme (QIP) on Recent Advancements in Environmental Engg organized by National Institute of Technology (NIT) , Tiruchirappalli (23-Feb-2007).
9. Delivered a Lecture on "Groundwater Potential Zonation Mapping in a Hard Rock Terrain of part of Tirunelveli District Using Remote Sensing and GIS" in AICTE Staff Development Programme organized by Govt. College of Engg. Salem (08-Mar-2007).
10. Delivered a Lecture on "Faculty Development Programme on Groundwater Technology" in Technical Education Quality Improvement Programme (TEQIP) organized by Govt. College of Engg. Salem (03-Mar-2009).
11. Delivered a Lecture on "(i) Software Applications in Modern Electronic Surveying (ii) Aerial Surveying and Remote Sensing " in AICTE Staff Development Programme organized by Govt. College of Engg. Salem (08-Aug-2009).
12. Delivered a Lecture on "Earthquake & Landslide Hazards " in Tamil Nadu Govt. Training organized by Anna Institute of Management, Chennai (15-Jul-2011).

13. Delivered a Lecture on "(i) Role of Remote Sensing and GIS in Ghat Road and Canal Alignment (ii) Engineering properties of rock" in Ministry of Earth Sciences (MoES), Govt. of India sponsored National Level QIP Training organized by Jeyam Engineering College, Dharmapuri (23-Aug-2011).
14. Delivered a Lecture on "Total Station and GPS Surveying; (ii) GIS applications in Surveying " in Training for Civil Engineers organized by EBET Group of Institutions Chennimalai (09-Sep-2011).
15. Delivered a Lecture on "Natural disaster & management" in Tamil Nadu Govt. Training organized by Anna Institute of Management, Chennai (15-Sep-2011).
16. Delivered a Lecture on "Spatial Information Technologies for Soils and water Resources Management" in AICTE Staff Development Programme organized by A.C College of Engineering and Tech (Govt)., Karai (10-Dec-2011).
17. Delivered a Lecture on "Engineering properties of Building stones (ii) Remote sensing and GIS applications in water resources " in Staff Development Programme organized by Dr.Sivanthi Aathithanar Engg. College,Tiruchendur (06-Jan-2012).
18. Delivered a Lecture on "(i) Scope and Job Opportunity for Geology, (ii) Role of Geology in Dam and Weir Construction" in INSPIRE Internship Science Camp, DST, Govt. of India organized by Jayam College of Engineering & Technology, , Dharmapuri (06-Feb-2012).
19. Delivered a Lecture on "Seawater intrusion and environmental degradation in coastal Thamarabarani Basin" in Staff Development Programme organized by Velammal Engineering College, Chennai (11-Feb-2012).
20. Delivered a Lecture on "(i) Advancement in Electronic Surveying, (ii) Remote Sensing, GIS & GPS" in Technical Training Programme on Modern Electronic Surveying organized by Paavai Engineering College , Namakkal (05-Mar-2012).
21. Delivered a Lecture on "GIS and its applications" in Staff Development Programme organized by V.M.K.V. Engg. College, Salem (02-Aug-2013).
22. Delivered a Lecture on "Application of GIS and Remote Sensing in Environmental Science" in CSIR, Govt of India, National Seminar organized by KSR College of Engineering, Tiruchengode (06-Sep-2013).
23. Delivered a Lecture on "Recent advancement in Surveying" in Staff Development Programme organized by Nandha College of Engg. Erode (07-Sep-2013).
24. Delivered a Lecture on "Application of Remote Sensing and GIS in Water Resource Management " in CSIR (Govt of India), National Seminar organized by VSA Group of Institutions, Salem (26-Sep-2013).
25. Delivered a Lecture on "Remote Sensing and its applications" in Staff Development Programme organized by V.M.K.V. Engg. College, Salem (18-Oct-2013).
26. Delivered a Lecture on "Ghat Road Alignment in Palamalai Hills (2) Applications of Eco-friendly geotextiles for Landslide Mittigation" in Technical Education Quality Improvement Programme (TEQIP) organized by Govt. College of Engg. Salem (04-Nov-2013).

27. Delivered a Lecture on "Mapping Techniques" in MoES (Govt of India) Faculty Development Programme organized by Dr.Sivanthi Aathithanar Engg. College, Tiruchendur (09-Jan-2014).
28. Delivered a Lecture on "(i) Introduction to Geospatial Technology (ii) RS & GIS Applications in Geo-Engineering (iii) GIS Applications in Disaster Ma" in DST-NRDMS (Govt of India) National Workshop organized by AVS Engineering College, Salem (08-May-2014).
29. Delivered a Lecture on "Scope for Civil Engineering" in Civil Engg. Association organized by Mailam Engg. College, Mailam (19-Aug-2014).
30. Delivered a Lecture on "Application of Remote Sensing and GIS in Civil Engineering" in National Workshop organized by A.M.S Engineering College, Erumapatti (23-Aug-2014).
31. Delivered a Lecture on "Workshop on Advanced Surveying using Total Station & GPS" in Seminar cum Workshop organized by Mailam Engg. College, Mailam (13-Sep-2014).
32. Delivered a Lecture on "Modern Surveying" in National Workshop organized by Sona College of Technology, Salem (19-Sep-2014).
33. Delivered a Lecture on "Modern Surveying" in National Seminar cum Workshop organized by Kaveri Engg College, Mecheri (07-Feb-2015).
34. Delivered a Lecture on "Disaster Awareness & Landslide Hazard mapping " in National Workshop organized by Sree Shakthi Institute of Engineering and Technolo (27-Feb-2015).
35. Delivered a Lecture on "Recent Advancement in Modern Electronic Surveying" in Seminar organized by Kongunadu college of Engineering, Thottium, Trichy (07-Mar-2015).
36. Delivered a Lecture on "Ground Water Engineering" in Anna University-Faculty Development Programme (FDP) organized by Adhiparasakthi Engineering College, Melmaruvathur (17-Jun-2015).
37. Delivered a Lecture on "Disaster Management & Preparedness" in UGC (Govt of India) sponsored National Seminar organized by Centre for Remote Sensing, Bharathidasan Universit (24-Feb-2016).
38. Delivered a Lecture on "Challenges in Hill Road alignment" in Association Meet organized by Salem Civil Engineers Association (29-Feb-2016).
39. Delivered a Lecture on "Recent Advancement in Modern Surveying" in National Seminar organized by VSA Engineering College, Salem (29-Feb-2016).
40. Delivered a Lecture on "(1) Saline water intrusion in Thamirabarani Delta, Tamil Nadu - Case Study (2) NETPATH modeling - Case Study" in MoES (Govt. of India) Training organized by Department of Earth Sciences, Pondicherry Universi (18-May-2016).
41. Delivered a Lecture on "(1) Recent Advancement in Modern Electronic Surveying (2) Asset Mapping - Ghat Road Alignment in Palamalai Hills, Tamil Nadu" in ISRO (Govt of India) Workshop organized by Periyar Maniammai University, Tanjur (15-Jul-2016).
42. Delivered a Lecture on "Recent trends in modern surveying" in Workshop organized by Mount Zion College of Engineering and Technology, , Pudukkottai (12-Aug-2016).

43. Delivered a Lecture on "(1) Seawater intrusion in Thamirabarani Delta - Case Study (2) Canal alignment - Case Study" in TEQIP workshop on Software applications in Environmental management organized by Government College of Technology (GCT), Coimbatore (31-Aug-2016).
44. Delivered a Lecture on "Geospatial Technology Applications in Hill Road Alignment" in DST-NRDMS (Govt of India) Sponsored Training on Geospatial Technologies organized by Department of Mining Engineering, CEG, Anna Univer, Chennai, India (10-Feb-2017).
45. Delivered a Lecture on "Groundwater exploration in and around Chalk Hills, Salem using Remote Sensing and GIS" in UGC Sponsored National Semianr organized by Bharathidasan University, Tiruchirappalli, India (17-Feb-2017).
46. Delivered a Lecture on "(1) Inverse Mass Balance Modeling in a Hard Rock Terrain using NETPATH, (2) Groundwater quality deterioration due to saline w" in DST-SERB sponsored National Workshop on "Advanced Techniques for Monitoring Water Quality and Manage organized by Sri Shathi Institute of Engineering and Technology, Coimbatore, India (23-Feb-2017).
47. Delivered a Lecture on "(1) Introduction to various types of surveying (2) Recent advancement in modern surveying (3) Case study on Ghat Road Alignme" in Technical Training on Modern Surveying and its applications organized by Mahindra Engineering College , Mallasamudram, Tamil Nadu (10-Mar-2017).
48. Delivered a Lecture on "Water resource planing for flood management - A case study using remote sensing and GIS" in ISRO Sponsored National Seminar organized by Nandha Engineering College , Erode, Tamil Nadu (07-Jul-2017).
49. Delivered a Lecture on "Geology for Civil Engineers" in workshop organized by Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Eng, Avadi, Chennai - 600 062 (05-Aug-2017).
50. Delivered a Lecture on "Hydrogeochemical modelling for bedrock aquifers" in DST-SERB & DAE-BRNS workshop on Recent advanced techniques for aqua chemical characteristics and su organized by Sri Shakthi Institute of Engineering and Technolog, Coimbatore, India (23-Aug-2017).
51. Delivered a Lecture on "Groundwater quality deterioration due to saline water intrusion " in DST-SERB & DAE-BRNS workshop on Recent advanced techniques for aqua chemical characteristics and sus organized by Sri Shakthi Institute of Engineering and Technolog, Coimbatore, India (24-Aug-2017).
52. Delivered a Lecture on "Applications of Geological Investigations" in Workshop organized by Dept of Civil Engg, Jeppiaar Engineering College, Chennai (15-Sep-2017).
53. Delivered a Lecture on "Salinisation of surface and sub-surface water in coastal Thamirabarani River Basin, Tamil Nadu, India - Investigation and Mit" in Indo-US Bilateral Workshop organized by Pondicherry University, Pondicherry, India (08-Jun-2018).
54. Delivered a Lecture on "(i) Environmental issues related to water pollution â€" case studies using GIS (ii) Environmental impacts during hill road fo" in AICTE-ISTE Induction/Refresher program organized by Knowledge Institute of Technology , Salem (30-Jun-2018).

55. Delivered a Lecture on "(1)Challenges in hill road alignment using Geospatial Technology, (2) Environmental issues due to seawater intrusion" in National Seminar on "Research issues and applications of Remote Sensing" organized by Vel Tech R & D Institute of Science and Technology, Chennai (26-Oct-2018).
56. Delivered a Lecture on "Ghat road alignment using Geoinformatics" in UGC-HRDC Refresher Course in Geosciences organized by Bharathidasan University , Tiruchirappalli (03-Dec-2018).
57. Delivered a Lecture on "Sustainable Development of Groundwater Resources - Case Study" in DST-BRNS Sponsored organized by Sri Shakthi Institute of Engineering and Technology, Coimbatore (04-Jan-2019).
58. Delivered a Lecture on "Recent advancement in Geospatial Technology" in Engineers and Scientists Association Meet organized by The Institution of Engineers (India) Neyveli Local, NLC (01-Feb-2019).
59. Delivered a Lecture on "Inverse mass balance modeling using NETPATH code to identify the major subsurface hydrogeochemical processes in hardrock aquifer" in First Bilateral Workshop of the Alliance of Mexican-Indian Geoscientific Opportunities (AMIGOs) organized by National Autonomous University of Mexico (UNAM), Mexico City (29-May-2019).
60. Delivered a Lecture on "Groundwater in South India and its effects on seawater intrusion " in Workshop on "Global warming and its effects on water and coastal disasters" organized by Bharathidasan University Model College , Vedarenyam (05-Jul-2019).
61. Delivered a Lecture on "Water Conservation and Management Techniques - Case Studies from Thamirabarani River Basin, South India" in TEQIP (Govt. of India) Sponsored FDP on Multi Disciplinary Approach for Water Conservation and Management organized by Government College of Technology (GCT), Coimbatore, India (03-Sep-2019).
62. Delivered a Lecture on "Ozone depletion - Causes and effects" in Ozone Day Celebration organized by Quaid-E-Millath Government Arts College for Women, Chennai (16-Sep-2019).
63. Delivered a Lecture on "Ghat Road Alignment, Canal Alignment and weir construction with the help of Geospatial Technology " in AICTE Sponsored One Week Short Term Training Programme (STTP) on Remote Sensing and GIS Applications organized by Annamacharya Institute of Technology and Sciences , Tirupati, Andhra Pradesh, India (27-Sep-2019).
64. Delivered a Lecture on "Environmental issues pertaining to ghat road formation and seawater intrusion - case studies" in UGC-HRDC Refresher Course on Environmental Science organized by University of Madras, Guindy Campus, Chennai- 25 (01-Oct-2019).
65. Delivered a Lecture on "Hydrogeochemical modeling for sustainable development of hard rock aquifers - Case studies" in Indo-U.S. Bilateral Workshop organized by Sri Shakthi Institute of Engineering and Technology, Coimbatore, India (02-Jan-2020).
66. Delivered a Lecture on "Major Environmental threats to human life in Tamirabarani Delta, South India : a study using Geospatial Technology and remediation" in International Conference on Combating Climate Change , Saving Lives and Sustainable development organized by Periyar Maniammai Institute of Science and Technology, Thanjavur, Tamil Nadu (24-Jan-2020).

67. Delivered a Lecture on "Advance Surveying using Drones" in DST-SERB Sponsored Workshop on Hands on Training on Application of Drones for Advance Surveying organized by Sona College of Technology, Salem, Tamil Nadu (27-Feb-2020).
68. Delivered a Lecture on "GPS Fundamentals and Enhancement" in AICTE Sponsored Online short term training programme on "Basic of Remote Sensing, GIS and GNSS" organized by Francis Xavier Engineering College , Tirunelveli, Tamil Nadu (28-Oct-2020).
69. Delivered a Lecture on "Seawater incursion in a coastal area of south India: An Integrated approach and engineering solution for mitigation" in Catedra Patrimonial "Dr.Hector Mayagoitia Dominguez" Plenary Conference organized by Instituto Politecnico National (IPN), MEXICO (10-Nov-2020).
70. Delivered a Lecture on "Geogenic health risks in and around Sevathur Carbonatite Complex of South India" in Climate change impacts on groundwater quality and health issues: Review and way forward organized by Sri Shakthi Institute of Engineering and Technolog, Tamil Nadu, India (22-Apr-2021).
71. Delivered a Lecture on "History and Methods of Surveying & Introduction to Drones " in ISTE Approved Short Term Training Programme on Drone Surveying organized by Annpoorana Engineering College, Salem, Tamil Nadu, India (17-May-2021).
72. Delivered a Lecture on "Radiation in soil, rock and groundwater - A case study from South India" in International Conference on Recent Advances in Water Science and Technology (ICRAWST- 2021) organized by Shakthi Institute of Engineering and Technology, Coimbatore, India (03-Dec-2021).
73. Delivered a Lecture on "Landslide Mitigation using environmental friendly geotextiles- A case study" in Government of TN Sponsored Five Day Online FDP on "Emerging Trends in Environmental Biotechnology" organized by Government College of Technology (GCT), Coimbatore (20-Dec-2021).
74. Delivered a Lecture on "Data Presentation" in Three Day Induction Programme for Research Scholars organized by Centre for Research, Anna University, Chennai (29-Mar-2022).

## Extension & Outreach Programme

1. Consultancy Work - Engineering Properties and classification of Rocks for TWAD, Urban Project, Sathankulam , during 02-Sep-2003 and 27-Nov-2003. No. of participants: 1.
2. Consultancy Work - Engineering and Geological Classification of Rocks for TWAD, Sewerage Division, Tirunelveli , during 10-Aug-2004 and 15-Nov-2004. No. of participants: 1.
3. Consultancy Work - Engineering Properties of Rocks - from Thoppur Ghat section to Thumpipadi section in National Highway (NH-7) for JSR Constructions Private Limited, Salem, during 07-Mar-2006 and 12-Jun-2006. No. of participants: 1.
4. Consultancy Work - Ghat Road Alignment from Adimalaikadu to Kemmampatti in Palamalai Reserve Forest under Pradhan Mantri Sadak Yojana for Tamil Nadu Highways Department, during 08-May-2006 and 26-Dec-2008. No. of participants: 1.

5. Consultancy Work - Site selection & Location of Chimney site at the proposed Thermal Power Station, Mettur Dam-3 for Chemplast Sanmar Ltd, during 15-May-2007 and 16-Oct-2007. No. of participants: 1.
6. Consultancy Work - Geoscientific Evaluation of Commercial Granites from Valuthalamgunam, Thiruvannamali Dt. for OSUN Promoters, Chennai, during 10-Aug-2010 and 12-Oct-2010. No. of participants: 1.
7. Consultancy Work - Site selection for earthing in North Chennai using Geophysical survey for Cosmic Power System, Chennai, during 09-Nov-2010 and 20-Dec-2010. No. of participants: 1.
8. Evaluated Research Project Proposal Submitted to Department of Science and Technology (DST), Govt. of India for funding, during 10-Feb-2012 and 10-Mar-2012. No. of participants: 1.
9. Chief Guest in the Valedictory Function, National Workshop on "Geoinformatics Applications in Disaster Management, participated by Faculty and Research Scholars Across India and funded by Ministry of Earth Science (MoES) (Govt. of India) at Sri Shakthi Institute of Engineering and Technology, Coimbatore during 27-Feb-2015 and . No. of participants: 40.
10. Chief Guest in the Valedictory Function, International Seminar on "Water and Sustainable Development", participated by Faculty and Research Scholars Across India and funded by NITTR (Govt. of India) at Periyar Maniammai University, Thanjavur, Tamil Nadu during 24-Mar-2015 and . No. of participants: 50.
11. Reviewer for Indian Journal of Geo-Marine Sciences (IJMS), CSIR Journal, during 05-Apr-2015 and 31-May-2016. No. of participants: 2.
12. Coordinator, International Conference on Environmental Science & Climate Change conducted at Karunya University, Coimbatore, during 08-Dec-2016 and 09-Dec-2016. No. of participants: 60.
13. Chief Guest in the Inaugural Function , Technical Training on Modern Surveying and its Applications, participated by Faculty and Students and funded by Indian Concrete Institute Student Chapter at Mahendra Engineering College, Namakkal District, Tamil Nadu during 10-Mar-2017 and . No. of participants: 70.
14. Chief Guest in the Valedictory Function, Induction/Refresher program on Global Environmental Issues Challenges Monitoring Using Geographic Information (GI) Technologies, participated by Faculty and Research Scholars Across India and funded by AICTE-ISTE (Govt. of India) at Knowledge Institute of Technology, Salem District, Tamil Nadu during 30-Jun-2018 and . No. of participants: 40.
15. Special Guest in the Valedictory Function, National Workshop on Recent Advancement in Water Quality Monitoring and Sustainable Management for Human Health Care (Water Care - 2019), participated by Faculty and Research Scholars Across India and funded by DST-SERB & Department of Atomic Energy (Govt. of India) at Sri Shakthi Institute of Engineering and Technology, Coimbatore during 05-Jan-2019 and . No. of participants: 50.
16. External Examiner, Ph.D Viva-voce examination for Mr.S.Backia Raj, Department of Geology, University of Madras, participated by Faculty and research scholars during 16-May-2019 and . No. of participants: 50.

17. External Examiner, Ph.D Viva-voce examination for Mr.P.Ramamoorthy, Department of Geology, University of Madras, participated by Faculty and research scholars during 28-Jun-2019 and . No. of participants: 40.
18. Chief Guest, Inauguration of New Geology Department , participated by Faculty and Students and funded by Higher Education, Govt. of Tamil Nadu at Government Arts College, Coimbatore during 03-Sep-2019 and . No. of participants: 35.
19. Chief Guest in the Inaugural Function , Multi Disciplinary Approach for Water Conservation and Management, participated by Faculty Members Across India and funded by TEQIP (MHRD, Govt. of India) at Government College of Technology (GCT), Coimbatore during 03-Sep-2019 and 07-Sep-2019. No. of participants: 40.
20. Chief Guest, Inauguration of Chemistry Association, participated by Faculty and Students at Quaid-E-Millath Government Arts College for Women, Chennai during 16-Sep-2019 and . No. of participants: 70.
21. External Examiner, Ph.D Viva-voce examination for Mr.K. Mohammed Musthafa, Department of Geology (Govt Arts College, Salem), Periyar University, participated by Faculty and research scholars during 03-Jan-2020 and . No. of participants: 48.
22. Chief Guest for the Inaugural Function , Hands on Training on Application of Drones for Advance Surveying, participated by Faculty and Students and funded by DST-SERB, Govt. of India at Sona College of Technology, Salem, India during 27-Feb-2020 and 28-Feb-2020. No. of participants: 100.
23. Chief Guest in the Valedictory Function , International Conference on "Recent advances in conservation and utilization of water (ICRACUW - 2020)", participated by Across India and funded by AICTE at Sri Shakthi Institute of Engineering and Technology, Coimbatore during 27-Aug-2020 and . No. of participants: 45.
24. External Examiner, Ph.D Viva-voce examination for Mr.A. Muthamilselvan, Department of Remote Sensing, Bharathidasan University, Tiruchirappalli, participated by Faculty and research scholars during 31-Aug-2020 and . No. of participants: 44.
25. External Examiner, Ph.D Viva-voce examination for Ms.P.Jeshma, Department of Geology, University of Madras, participated by Faculty and research scholars during 04-Oct-2021 and . No. of participants: 43.