

Staff Name	:	Ms. R. RUTHRA
Faculty ID	:	TCI12
Designation	:	Assistant Professor
Qualification	:	B.E., M.Tech, (Ph.D)
Teaching experience	:	5 Year 6 Months
Area of specialization	:	Coastal Management
Subjects handled	:	<ul style="list-style-type: none"> <li>• Engineering Graphics</li> <li>• Basic Civil and Mechanical Engineering</li> <li>• Railways, Airport and Harbour Engineering</li> <li>• Construction Techniques, Equipment and Practices</li> <li>• Principles of Management</li> <li>• Concrete Technology</li> <li>• Traffic Engineering and Management</li> <li>• Environment &amp; Agriculture</li> <li>• Professional Ethics in Engineering</li> <li>• Municipal Solid Waste Management</li> <li>• Water Supply Engineering</li> <li>• Wastewater Engineering</li> </ul>
Laboratory handled:	:	<ul style="list-style-type: none"> <li>• Waste Water Analysis Laboratory</li> <li>• Environmental Engineering Laboratory</li> <li>• Computer Aided Drafting &amp; Designing Laboratory</li> <li>• Surveying Laboratory</li> <li>• Environmental and Irrigation Drawing Laboratory</li> <li>• Advanced Surveying Laboratory</li> </ul>

Books published	:	<ul style="list-style-type: none"> <li>● Published a Text book on <b>“Disaster Management”</b> by Suchitra Publication in the year of 2020.</li> <li>● Published a Text book on <b>“Water Supply and Waste Water Engineering”</b> Lakshmi Publication in the year of 2023.</li> </ul>
Journals published	:	<ul style="list-style-type: none"> <li>● Published a Book Chapter <b>“Green Treatment Technologies for Microplastic Pollution”</b> Microplastic Pollution (pp.467-485) , Chapter: 21, Publisher: Springer, Jan 2022.</li> <li>● Published a paper <b>“Spatial distribution "of microplastic concentration around landfill sites and its potential risk on groundwater”</b> in the Journal of Chemosphere with Impact Factor 7.086, Volume 277, and August 2021.</li> <li>● Published a paper <b>“Impact of COVID-19 outbreak on tropospheric NO2 pollution assessed using Satellite-ground perspectives observations in India”</b> in the Journal of Modelling Earth Systems and Environment, page no 1-11, May 2021.</li> <li>● Published a paper <b>“Utilisation of Seasand as Partial Replacement of Fine Aggregate to Strengthen the Concrete”</b>in International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-5, March 2020.</li> <li>● Published a paper <b>“Effect of Natural Fibers Composites as Soil Stabilizer on Flexible Pavement Design”</b> in International Journal of Innovative Technology and ExploringEngineering (IJITEE),ISSN: 2278-3075, Volume-9 Issue-5, March 2020.</li> </ul>
Conference / workshop attended	:	<ol style="list-style-type: none"> <li>1. Attended the National Seminar on <b>“Emerging Trends And Practices Of Soil Improvement Techniques In Geotechnics”</b> Organized by Department of Civil Engineering, Vels Institute of Science, Technology &amp; Advanced Studies (VISTAS) held on 05.12.2022.</li> <li>2. Attended two days online training course on <b>“Advanced Techniques of Bathymetry Survey for Reservoirs and Coastal Projects”</b> organized by Hydraulic Instrumentation Division of Central Water and Power Research Station, Pune during 20th – 21st September, 2022.</li> <li>3. Attended International Faculty Development Program on</li> </ol>

	<p><b>“Futuristic Research in Mechanical Engineering”</b> organized by Department of Mechanical Engineering, SRM Institute of Science and Technology, Ramapuram Campus, Chennai from 08th August to 13th August 2022.</p> <p>4. Attended One Week Online Workshop on <b>"Hydro-Geological Engineering"</b>, organized by Department of Civil Engineering, J.N.N. College of Engineering, Shivamogga from 22nd to 26th August 2022, sponsored by Karnataka Science and Technology Academy (KSTA), Department of Science and Technology, Government of Karnataka.</p> <p>5. Attended an 14 days STTP on <b>“Land Use and Land Cover using Remote Sensing”</b> organized by National Water Academy, Central Water Commission, Pune, March 2022.</p> <p>6. Attended an 14 days STTP on <b>“Introduction to Python Programming &amp; Its Applications in Water Resources Sector”</b> organized by National Water Academy, December 2021.</p> <p>7. Attended an Outreach Programme on <b>“Satellite Photogrammetry and its Application”</b> organized by Indian Institute of Remote Sensing (IIRS), ISRO Dehradun, July 2020</p> <p>8. Attended an Outreach Programme on <b>“Application of Geoinformatics in Ecological Studies”</b> organized by Indian Institute of Remote Sensing (IIRS), ISRO Dehradun, July 2020</p> <p>9. Attended an Outreach Programme on <b>“Forest Mapping and Monitoring with SAR Data”</b> organized by NASA's Applied Remote Sensing Training Program (ARSET), May 2020</p> <p>10. Attended an AICTE recognized five days Faculty Development Programme on <b>“Soft Computing Technologies in Civil Engineering: Water Resources, Structures and Transportation Engineering”</b> organized by Vishnu Engineering College, TamilNadu , July 2020</p> <p>11. Attended an AICTE recognized five days Faculty Development Programme on <b>“Application of Remote Sensing in Soil and Groundwater Contamination</b></p>
--	--

	<p><b>Assessment”</b> organized by Sri Krishna College of Engineering,Coimbatore, TamilNadu, August 2020</p> <p>12. Attended an AICTE recognized five days Faculty Development Programme on <b>“Green and Intelligent Buildings”</b> organized by NITTTR, Chandigarh during 14.04.2020 to 18.04.2020</p> <p>13. Attended have attended an Online workshop on <b>“Recent Advances in Science &amp; Technology of Concrete</b> by IIT Madras, during 02.05.2020</p> <p>14. Attended an AICTE recognized five days Faculty Development Programme on <b>“Environment and Sustainable Development”</b> organized by NITTTR, Chandigarh during 20 .04.2020 to 24.04.2020.</p> <p>15. Participated in E QUIZ on <b>“Environmental Safeguard Challenges in Industries and its Regulations”</b> on 20.05.2020 organized by Saveetha Engineering College,Chennai</p> <p>16. Participated in E QUIZ on” 2020 Advanced Construction Technology ” on 09.05.2020 organized by E.G.S Pillay Engineering College,Nagapattinam.</p> <p>17. Attended a webinar titled <b>“Exposures to different types of Irrigation Structures”</b> on 15.05.2020 organized by M.A.M. College of Engineering and Technology, Trichy</p> <p>18. Attended a webinar titled <b>“Faecal Sludge Management; Indian Scenario &amp; Way Forward”</b> on 19.05.2020 organized by K. D. K. College of Engineering, Nagpur.</p> <p>19. Attended a webinar titled <b>“Guidelines for Writing a Research Paper”</b> on 22.05.2020 organized by Arasu Engineering College,Kumbakonam</p> <p>20. Participated in E QUIZ on <b>“Piles – Raft Foundations for High – Rise Buildings: Sustainability and Future Directions”</b> on 21.05.2020 organized by Saveetha Engineering College,Chennai</p> <p>21. Attended a webinar titled <b>“Pre-Engineered Steel and its connection design details”</b> on 06.05.2020 organized by Adithya Institute of Technology &amp; Association of</p>
--	--

	<p>Consulting Engineers, Coimbatore</p> <p>22. Attended a webinar titled “<b>Detailing of Reinforcements – Do’s and Don’ts</b>” on 06.05.2020 organized by Adithya Institute of Technology &amp; Association of Consulting Engineers, Coimbatore.</p> <p>23. Attended an five days short term program on “<b>Smart Sustainable Cities</b>” organized by NITTTR, Chandigarh during 25..05.2020 to 29.05.2020</p> <p>24. Attended an five days short term program on “<b>Waste Management</b>” organized by NITTTR, Chandigarh during 11.05.2020 to 15.05.2020</p> <p>25. Attended an five days short term program on “<b>Environment and Sustainable Development</b>” organized by NITTTR, Chandigarh during 20.04.2020 to 24.04.2020</p> <p>26. Attended an '<b>Indo-China Research Webinar Series in Civil and Environmental Engineering</b>' during 8-19-May 2020, jointly initiated by faculties from Shantou University, China, Vardhaman College of Engineering, Hyderabad, Indian Geotechnical Society, Surat Chapter, and School of Civil Engineering Qingdao University of Technology, China.</p> <p>27. Attended a webinar titled “<b>Latest Trends &amp; Technologies in Water Proofing</b>” on 05.05.2020 organized by Indian Concrete Institute - Bangalore Centre</p> <p>28. Attended a webinar titled “<b>Piles in Soft clay-Field Experience</b>” on 03.05.2020 organized by Indian Geotechnical Society, Guntur Chapter</p> <p>29. Attended a webinar titled “<b>Piles – Raft Foundations for High – Rise Buildings: Sustainability and Future Directions</b>” on 21.05.2020 organized by Saveetha Engineering College,Chennai.</p> <p>30. Attended a webinar titled “<b>Energy Management in Educational Institutions</b>” on 29.05.2020 organized by Thiagarajar College of Engineering, Madurai.</p> <p>31. Attended a webinar titled “<b>Sustainable Perspectives of Sewage Treatment - A Pandemic Warrior</b>” on 23.05.2020 organized by Chalapathi Institute of</p>
--	--

Technology,Guntur.

32. Completed 4 days NASA's Applied Remote Sensing Training Program (ARSET) on “ **Forest Mapping and Monitoring with SAR Data** “ by NASA during May 12, 14, 19 & 21, 2020.
33. Attended a webinar titled “ **Earthquake Resistant Design of Structures**” on 29.05.2020 organized by St.Joseph's College of Engineering,Chennai.
34. Participated in International webinar on “ **Challenges of Climate Changes and Sustainable Development Goals**” organised by the Department of Geography, School of Basic and Applied Sciences, Adamas University on 29th June 2020.
35. Participated in International webinar on “**Successful Preparation of Research Proposal**” organised by Department of Civil Engg, Dr.N.G.P IT, Coimbatore on 26-06-2020.
36. Participated in Webinar on “**Water Distribution Network Models using EPANET**” on 19.06.2020 organized by Bapatla Engineering College, Andhra Pradesh.
37. Participated in National Level e-Quiz on “**Awareness on IPR, Incubation, Entrepreneurship, Design Thinking and Innovation Management**, Organised by Institutions Innovation Council (IIC), CMR Technical Campus , Hyderabad from 19-06-2020 to 21-06-2020.
38. Participated in the webinar on “ **Concrete Making and Handling at Site - A Practical approach** organised by Dept of Civil Engg, St.Joseph's College of Engineering, Chennai-119.
39. Participated in the webinar on “ **Role of AutoCAD in Construction Sector**, organised by Dept. of .Civil Engg, Sri Ramakrishna Institute of Technology, Coimbatore on 05.06.2020
40. Participated in the webinar on “**Current practices in site investigation and ground improvement techniques**”, organised by Dept. of .Civil Engg, Sri Ramakrishna Institute of Technology, Coimbatore on 04.06.2020

	<ol style="list-style-type: none"><li>41. Participated in “<b>Developing Sustainable Groundwater Management Strategies</b>” organised by Elseviers Engineering &amp; Geoscience Solutions and Bright Talk on June 25th, 2020.</li><li>42. Completed 4 days NASA’s Applied Remote Sensing Training Program (ARSET) on “<b>Satellite Remote Sensing for Agricultural Applications</b> “ by NASA.</li><li>43. Completed 2 week ISRO online course on “ <b>Basic Principles of Remote Sensing Technology</b>” conducted by Indian Institute of on Remote Sensing (IIRS), ISRO Dehradun.</li><li>44. Attended an five days Webinar Series on “ <b>Advances in Building Technology</b>” organized by CSIR-CENTRAL BUILDING RESEARCH INSTITUTE, ROORKEE during June 01-05, 2020.</li><li>45. Attended a International Conference on “<b>Sustainable Future</b>” held on 6th January 2020 at Anna University, Chennai.</li><li>46. Attended a One days Workshop on “<b>Structural Design and Building System</b>” held at Indian Institute of Technology, Madras during 28th December 2019.</li><li>47. Attended a Two week on <b>AICTE Sponsored</b> Faculty Development Programme on “<b>The Global Challenge of Desalination with Membranes</b>” held at St.Joseph’s College of Engineering during 25 - 08 December 2019.</li><li>48. Attended a Seven days on <b>TEQIP III Sponsored</b> Faculty Development Programme on “<b>Disaster Risk Management</b>” held at PSG College of Technology during 10 - 16 November 2019</li><li>49. Participated in Seminar titled “<b>Corrosion Control in Concrete Structures</b>” in IIT Madras and NIGIS-SZ on 15-06-2019.</li><li>50. Participated in Workshop titled as “<b>Designing Active Learning Classroom for STEMM : A bridge between Teaching &amp; Learning</b>” held at Anna University ,Chennai on 19-11-2019.</li><li>51. Presented a Paper titled as “<b>Utilization of Seasand as</b></li></ol>
--	--

	<p><b>Partial Replacement of Fine Aggregate to strengthen the Concrete” in International Conference on Innovations in Engineering and Sciences (ICIES’18)</b> 23rd-24th March 2018 at Jeppiaar SRR Engineering College, Chennai.</p> <p>52. Attended <b>“Author Workshop”</b> organized by <b>Wiley in collaboration with Anna University Library</b>, Chennai on 19<sup>th</sup> November,2018.</p> <p>53. Participated in AICTE-ISTE Short Term Training Programme on <b>“Recent Advances in Industrial Pollution Control (RAPIC-18)”</b> organized by SRM Institute of Science &amp; Technology,Chennai on 12<sup>th</sup> – 16<sup>th</sup> November, 2018.</p> <p>54. Participated in Faculty Development Training Programme on <b>“CE 8301- Strength of Materials”</b> at <b>University College of Engineering, Tindivanam</b> from June 4th - 10th, 2018</p> <p>55. Attended Faculty Development Training Programme on <b>“Design of Reinforced Concrete Structures”</b> at St.Joseph’s College of Engineering from 28th May - 4th June 2018</p> <p>56. Presented a paper titled as <b>“Mapping of Landuse/LandCover Changes of Pulicat Lake using GIS and Remote Sensing”</b> in the National Conference RICE-2018 -Recent Innovations in Civil Engineering conducted by the Department of Civil Engineering, on March 23, 2018.</p> <p>57. <b>R.Ruthra</b>, B.Poornachander, V. Deepak Samuel and R.Sankar presented a poster Titled <b>“Ecosystem Interaction and Its significance to Pulicat Lake”</b> Post-Centenary Diamond Jubilee <b>International Conference on Biodiversity and Sustainable Resource Management (ICBSRM – 2018)</b>, held at University of Madras, Chennai during March 12-13,2018.</p> <p>58. B. Poornachander, <b>R. Ruthra</b>, R. Sankar, V. Deepak Samuel and K.R Abhilash presented a paper titled <b>“Pulicat Lake – A diversified ecosystem under threat”</b> Post-Centenary Diamond Jubilee <b>International Conference on Biodiversity and Sustainable Resource</b></p>
--	--



**Management (ICBSRM – 2018)**, held at University of Madras, Chennai during March 12-13, 2018.

59. **R.Ruthra**, R.Sankar, B.Poornachander, presented a paper titled “**Seagrass Ecosystem and its significance to Pulicat fishery**” in the National Seminar on Advances in Animal science for Sustainable Development, (AASSD-2018) at Jamal Mohamed College (Autonomous), Tiruchirappalli 15th February 2018.
60. B.Poornachander, R.Sankar, **R.Ruthra**, presented a paper titled “ **Mapping of Landuse/LandCover Changes of Pulicat Lake and Its Environmental Issues**” in the National Seminar on Advances in Animal science for Sustainable Development, (AASSD-2018) at Jamal Mohamed College(Autonomous), Tiruchirappalli 15th February 2018.
61. Participated in “**Young Scientist Conclave**” event as part of India International Science Festival (IISF) 2017 held at Chennai on 13th Oct to 16th Oct 2017.
62. Presented a poster titled “**Care for Conserving and Managing Pulicat Lake**” Under the theme Climate change and Sustainability and Biodiversity Environment at Young Scientist Conclave in IISF 2017 held at Chennai, Oct 13th to 16th, 2017.
63. Organised One Day National Staff Workshop on “**Disaster Modeling and Its Impact Assessment**” in **St. Joseph’s College of Engineering , on 24.08.2017**
64. National Workshop on “**Sustainable Development of Mangrove Ecosystem**” sponsored by UGC-CPEPA on 27th March, 2017 conducted by Dept. of Geography, University of Madras.
65. Participated in the Two Days Workshop on “**GIS – Designing Our Future**”, organised and conducted by Ramanujan Computing Centre, Anna University, Chennai during 08th -09th April 2017.
66. Participated in “Chennai Science Festival 2017” organised by the Science City on the theme “ Sustainable Water Management and Agriculture” at the Queen Mary’s College, Chennai from 9th Feb to 12th Feb , 2017.

		<p>67. International Conference on “<b>Emerging Issues in Quality and Safety of Fish and Shellfish</b>” conducted by Fisheries University Tuticorin in collaboration with Institute for Ocean Management (IOM), Anna University, Chennai from 11th -12th August 2016.</p> <p>68. Attended <b>Indo-Dutch Course</b> on “<b>Ecosystem Services and Coastal Development</b>” held at Institute for Ocean Management, Anna University, Chennai from 30th March to 13th April 2016.</p> <p>69. Model Presentation entitled “<b>Coastal Disaster Management Plan</b>” Organised by Govt. of TamilNadu at Queen Mary’s College, Chennai, from 26th Feb to 29th Feb, 2016.</p> <p>70. Workshop on “<b>Water Treatment Process</b>” Organised by Department of Civil Engineering, Jerusalem Engineering College – 18th Sept 2014.</p> <p>71. Participated in “ Bridge Design and Fabrication” organised by Civil Simplified on 26.03.2014 at College of Engineering, Anna University, Chennai.</p>
Professional Membership	:	
Funded project details	:	-
Certification Courses:		<ul style="list-style-type: none"> <li>● Successfully Completed NITTT Courses on :</li> </ul> <p><b>Module 1 :</b> Orientation Towards Technical Education and Curriculum Aspects</p> <p><b>Module 2 :</b> Professional Ethics &amp; Sustainable Development</p> <p><b>Module 3 :</b> Communication Skills, Modes and Knowledge Dissemination</p> <p><b>Module 4 :</b> Instructional Planning and Delivery</p> <p><b>Module 5 :</b> Technology Enabled Learning and Life-Long Self Learning</p> <p><b>Module 6 :</b> Student Assessment and Evaluation.</p> <p><b>Module 7:</b> Creative Problem Solving, Innovation and Meaningful research and development</p>

	<b>Module 8</b> : Institutional Management & Administrative Procedures
<b>Awards:</b>	<b>“AICTE Lilavati Award 2021-2022”</b> - Won 1 <sup>st</sup> Runner up under the theme Women Empowerment (Women and Adolescent Health)