

# SATHEESH KUMAR P

## CONTACT

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- 🏠 Kovilpatti, TN, India
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## EDUCATION

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### SSLC (2012-13)

A.P.C.Veerabahu MHSS, Tuticorin  
Percentage : 90.20

### HSC (2014-15)

A.P.C.Veerabahu MHSS, Tuticorin  
Percentage : 77.50

### B.E. – Civil (2015-19)

National Engineering College,  
Anna University, CGPA : 8.92

### M.E. – Environmental (2019-21)

Thiagarajar College of Engineering,  
Anna University, CGPA : 8.73

### Ph.D. – Civil (2022-Present)

Thiagarajar College of Engineering,  
Anna University, CGPA : 8.50

## SKILLS

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- Water Quality Analysis
- Drafting
- Critical Thinking
- MS: Word, Excel, PPT

## SOFTWARES

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- SPSS 16.0
- Visual MODFLOW
- ArcGIS
- Auto Cad
- Geochemist WorkBench (GSS)

## PROFESSIONAL OVERVIEW

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Dynamic Environmental professional with the ability to deliver comprehensive environmental management plans through innovative solutions and teamwork. I excel in data analysis, problem solving and had a track record in groundwater quality assessment and modeling, demonstrating strong analytical skills and commitment to sustainable practices.

## EXPERIENCE

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### Assistant Professor (Civil)

National Engineering College, Kovilpatti | Apr 2026 – Present

### Expert (JLE)

WAPCOS Limited, Tuticorin | Aug 2021 – Jan 2022

- Preparation of Environmental Management Plan report for Tuticorin Smart City Project.

### Intern Trainee

Environmental Cell Sub-division, Tirunelveli | Feb 2021 – Apr 2021

- Internship training on the topic “Assessment and Groundwater quality modeling for an urban environment”.
- Preparation of basemaps and water sampling.
- Water quality assessment and Contaminant transport modeling.

### In-Plant Trainee

PKM-SPL (JV), Kovilpatti | May 2017

- In-Plant training on road Construction “TNRSP II - EPC09/ upgrading Paruvakudi – Kovilpatti – Ettayapuram – Vilathikulam – Vembar (SH-44) from Km 22/500 to 38/750 and from 41/300 to 56/700”.

## ACHIEVEMENTS

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- GATE 2024 – Civil Engineering
- GATE 2025 – Environmental Science & Engineering
- GATE 2026 – Environmental Science & Engineering
- Best paper award in International Conference on Innovations in Sustainable Technologies for Energy, Environment, and Healthcare (ICISTEEH – 2026) for the paper titled “Statistical Analysis of Rainfall Variability and Extremes for Climate-Resilient Urban Water Management”

## PROJECTS

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- **Construction Debris based Paver Blocks.**

Interlinked paver blocks with M40 grade were prepared by partially replacing Coarse aggregate with Construction debris. Focusing on the reduction of waste generation and handling by properly recycling it without compromising the required quality of the product.

- **Assessment and Groundwater Quality Modeling for an urban Environment.**

Raw sewage is disposed in a tank for the past 3 decades without proper treatment which may affect the groundwater quality through infiltration. Hence, Groundwater in and around the area is assessed and a contaminant transport model was done to predict the level of contamination for the future.

## PUBLICATIONS

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- **P. Satheesh Kumar**, S. Chandran, P. Diwahar, (2026), “*Estimation of Rooftop Rainwater Harvesting for an Educational Institution - A Water conservation Strategy*”, Sustainable Economy and Ecotechnology. IEREK Interdisciplinary series for sustainable development. Springer Book Chapter: Innovative and Intelligent Computing for Global Sustainability. [https://doi.org/10.1007/978-3-031-97385-7\\_14](https://doi.org/10.1007/978-3-031-97385-7_14).
- Diwahar P, Dr. Chandran S, **Satheesh Kumar P**, (2025), “*An Assessment of the current status and potential benefits of sewage farming in the southern Madurai Region*”, Advances in Mechanics, Vol 13, No 1, pp. 287-295. <https://www.advancesinmechanics.com/2025-287.php>.
- **Satheesh Kumar P**, Chandran S, Dhanasekara Pandian M, Kumar Veluswamy, Sivasangari S, (2022), “*Assessment of Groundwater for a municipality Environment - An Urgent need for rural development*”, 2022 ASABE Annual International Meeting, Paper Number: 2201243. <https://doi.org/10.13031/aim.202201243>.
- Diwahar P, Dr. Chandran S, **Satheesh Kumar P**, (2025), “*Feasibility Examination of Sewage Farming and its impacts on Peri-urban agriculture*” 2<sup>nd</sup> International Conference on Multi-Disciplinary Perspectives in Engineering & Technology. ISBN – 9788197004049.
- Diwahar P, Dr. Chandran S, Jeykumar R K C, **Satheesh Kumar P**, (2025), “*Economic benefits of wastewater reuse for agriculture*”, International Conference on Advances in Mechanical, Civil and Construction Engineering. ISBN: 978-93-90150-25-0.

### Conference Presentation

- **Satheesh Kumar P**, Dr.S.Chandran, Dhanasekara Pandian, Kumar Veluswamy, (2022), “*Assessment and Modelling of Groundwater for a Municipality Environment - An urgent need for Rural Development*”, International Conference on Water and Environmental Management (WEM-2022).
- Diwahar P, Dr. Chandran S, **Satheesh Kumar P**, (2025), “*Socio-Economic Impact of Sewage Farming*”, – 1<sup>st</sup> RC 2025.
- **Satheesh Kumar P**, Kannan R, Balasathishkumar, Muthukumar P, Sebastin S, (2019), “*Construction Debris Based Paver Block*”, 9<sup>th</sup> International Conference on Science and Innovative Engineering 2019.

## CERTIFICATIONS

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### **NPTEL**

- **Domain Certification in Energy and Environment** | Oct 2024
- **Discipline Star - Chemical Engineering** | Jul - Dec 2024
- **Discipline Star - Civil Engineering** | Dec 2019
- Environmental Remediation of Contaminated Sites
- Environmental Quality Monitoring & Analysis
- Basic Environmental Engineering and Pollution Abatement
- Waste to Energy Conversion
- Plastic Waste Management
- Renewable Energy Engineering Solar, Wind and Biomass Energy Systems
- Technologies for Clean and Renewable Energy Production
- Fire Protection, Services and Maintenance Management of Building
- NBA Accreditation and teaching Learning in Engineering
- Ethics in Engineering Practice
- Effective Engineering Teaching in Practice
- Towards an Ethical Digital Society: From Theory to Practice
- Advanced Topics in the Science and Technology of Concrete
- Matrix Method of Structural Analysis
- Mechanics of Solids
- Strength of Materials

- Structural analysis-I
- Digital Land Surveying and Mapping
- Soil Mechanics/Geotechnical Engineering I
- English Language for Competitive Exams
- Developing Soft Skills and Personality

### **Cambridge English Language Assessment**

- Council of Europe Level B1 – Cambridge English Entry Level Certificate in ESOL International (Entry 3) (Business)

### **Coursera**

- **Specialization in Energy Production, Distribution & Safety**
- Air Pollution - A Global Threat to our Health
- Introduction to Household Water Treatment and Safe Storage
- Introduction to Indoor Air Quality
- Water Resources Management and Policy
- Smart Cities – Management of Smart Urban Infrastructures
- Sustainable Tourism – promoting environmental public health
- Safety in the Utility Industry
- Natural Gas
- Electric Power Systems
- Energy: The Enterprise
- AI for Everyone

## COURSES ATTENDED

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- Membrane Bioreactors for Sustainable Wastewater Treatment and Bioenergy Production – GIAN – IIT Madras.
- Nanomaterials for Water Treatment – GIAN – NIT AP.
- Satellite Photogrammetry and its Application – IIRS.
- Understanding of Coastal Ocean processes using Remote Sensing, Numerical Modelling– IIRS.
- Sustainable Environmental Engineering Practices (SEEP 2020) – FDP – NIT Rourkela.
- Integrated Urban Water & Wastewater Management – FDP – PSG Institute.
- Groundwater Modelling – FDP – Mepco Schlenk Engg. College.
- Environmental Monitoring and Assessment – PDP – NITTTR, Chennai.
- Sustainable Water Resources Management – FDP – KVCET.
- Innovations in Sustainable Water Resources Management – FDP – DGCT, Salem.

- Climate Resilient, Energy Secure and Healthy Built Environments – PDP – NPTEL<sup>+</sup>.
- Recent Modelling Approaches in Water Resources Engineering – FDP – Osmania University.
- Challenges and Remedies in Various fields of Civil Engineering Construction – VIT Chennai.

## **WORKSHOPS / SEMINARS / WEBINARS ATTENDED**

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- A hybrid Course on Water Quality – An Approach to People’s Water Data – IIT Madras.
- Research Expo – IIT Madras.
- 3D Printable Concrete Workshop – IIT Madras.
- How to measure water security? Using the water security assessment tool – IIT Madras.
- Clean Water: Emerging Frontiers – IITM ICCW.
- Advanced treatment of urban wastewater and reuse: Effect of consolidated, new treatments on contaminants of emerging concern – ICWR.
- Effects of Engineered Nano-Particles (NPs) on the operation of Wastewater Treatment Plants – ICWR.
- Role of biotechnology in solving environmental problems – ICWR.
- Sustainable Ecosystem Restoration Initiatives & Practices (SERIP 2021) – NIT Silchar.
- Climate Change Socio Economic Impacts and Resilience Building – VNIT Nagpur.
- Water Quality Management for Aquaculture – NIT Puducherry.
- Emerging Contaminants in River Water Quality Issues and Measurements – Puducherry Envis.
- IEEE Xplore – IEEE.
- Best Waste Management Practices – NPC.
- Feflow software training – DHI.
- Sustainable Water Management – PSG Institute.
- Green Building Certification – PSG Institute.
- Coastal and Environmental Management – PSG Institute.
- Creative Methods and Tools for Effective Research Dissemination – IIITDM Kancheepuram.
- Best Waste Management Practices – National Productivity Council.
- MIKE powered by DHI training using FEFLOW software – DHI.
- Hands on Training Programme on GC/MS Quantification Analysis – SIST.
- Online Workshop on Bhoonidhi – 2024 – NRSC, Hyderabad.
- Living Machines Nature's Biota as Engine of Climate Resilience & Cleaner Environment – TCE Madurai.
- How to do Literature Survey? – TCE Madurai.
- Communication Skills for Aspiring Engineers – KCET, Virudhunagar.
- Data Driven Optimization in Engineering – KVCET.
- Waste Management in Thermal Powerplants – CMR University.
- Climate resilience, Water security and Energy transition – Dr. D.Y.Patil Institute of Technology, Pimpri, Pune.
- Air Pollution Monitoring and Modelling – Dr. S & S Ghandhy Government Engineering College, Gujarat.

## **MEMBERSHIP**

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- Associate Member (AM3206206) of the Institution of Engineers (India) (IEI).
- Life Member (LM 146407) of Indian Society for Technical Education (ISTE).
- Life Member (LM 11788) of Indian Water Works Association (IWWA).
- Life Member (CSEE2502026) of Center for Sustainable Environment and Education (CSEE).
- Member (566695) of International Association of Engineers (IAENG).
- Professional Member (PROF-33200448) of Institute for Educational Research and Publication (IFERP).
- Student Member (12301760) of American Society of Civil Engineers.

## **DECLARATION**

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I do hereby declare that the above-mentioned information is true to the best of my knowledge.

**PLACE:** Kovilpatti

**DATE :** 01.07.2026



(Satheesh Kumar. P)