

Prof. Gowtham Prasad M E

Assistant Professor, Department of Civil Engineering

R V College of Engineering, Bengaluru, Karnataka, India



Prof. Gowtham Prasad M. E. is a dynamic and accomplished Civil Engineering professional specializing in **Hydraulics and Water Resources Engineering**. With over **14 years of diverse experience** spanning academia, industry, and research, he has made significant contributions to the fields of **hydrological and hydraulic modeling, watershed management, sustainable infrastructure, and environmental engineering**.

He holds a **B.E. in Civil Engineering**, an **M. Tech in Hydraulics & Water Resources Engineering**, and is pursuing his **Ph.D. in Water Resources Engineering**. His research focus includes **rainfall intensity analysis, flood modeling using deterministic and probabilistic approaches, groundwater systems studies, open channel hydraulics, and environmentally sustainable energy and water systems**.

Prof. Gowtham has been instrumental in **real-world engineering projects**, notably contributing as a **Practicing Engineer** for the **Multi - Village Water Supply Schemes** under the **Jal Jeevan Mission & Karnataka Monitoring and Evaluation Authority** in Karnataka. His analytical and technical capabilities are reflected in his diverse range of **published research**, spanning **international journals, conferences, and Springer book chapters**, covering topics from **drought risk and soil stabilization to innovative concrete materials and water treatment solutions**.

He has published **more than a dozen research articles**, contributed to **Springer's Advances in Science, Technology & Innovation** series, and holds **three patent journal publications** in the area of **waste-to-resource innovations**. Prof. Gowtham is also skilled in a range of **engineering and geospatial software tools**, including **ArcGIS, QGIS, HEC-HMS, IHACRES, AutoCAD, Water GEMS, MATLAB**, and programming in **Python**, which he uses to support his modeling and simulation efforts.

A passionate educator and researcher, he is also a proud member of prestigious professional bodies such as the **American Society of Civil Engineers (ASCE)** and the **International Association of Engineers (IAENG)**. His commitment to academic excellence and societal impact is further demonstrated by his involvement in **environmental case studies, urban development assessments, and community-focused projects**.

Personal Information

- **Name:** GOWTHAM PRASAD M E
- **Designation:** Assistant Professor
- **Department:** Department of Civil Engineering
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- **Phone:** 080-68188186
- **Google Scholar** - [Wo1nbLEAAAAJ&hl](https://scholar.google.com/citations?user=Wo1nbLEAAAAJ&hl=en)
- **Research Gate** - https://www.researchgate.net/profile/M-E-Prasad-2?ev=hdr_xprf
- **Scopus Author ID:** [59410473400 57678643000](https://orcid.org/0000-0002-5245-7534)
- **ORCID:** <https://orcid.org/0000-0002-5245-7534>

Domain of Expertise

Research Focus

- Primary Area:**
- **Hydrology & Hydrological Modeling**
 - **Open Channel and Pipe Flow Hydraulics**
 - **Water Resources Engineering**
 - **Urban Water and Environmental Engineering**
 - **Sustainable Infrastructure and Materials**
 - **Geospatial Applications in Civil Engineering**
 - **Groundwater and Subsurface Studies**
- **Allied Areas:**
- **Climate Change Impact on Hydrological Systems**
 - **Watershed Management and Conservation Practices**
 - **Sustainable Energy-Water Nexus**
 - **Remote Sensing & GIS in Water and Land Use Studies**
 - **Smart and Green Infrastructure Development**
 - **Geotechnical Engineering and Ground Improvement**
 - **Construction Waste Management and Circular Economy**
 - **Environmental Impact Assessment (EIA) and Policy**

Academic Qualifications

- **Ph.D.:** [Water Resources Engineering – Visvesvaraya Technological University]
- **M.Tech:** Hydraulics, Visvesvaraya Technological University, 2014 – 15
- **B.E.:** Civil Engineering, Visvesvaraya Technological University, 2009 – 10

Professional Experience

Experience			
Sl. No	Institute/College/Industry	Job Title	Duration
1.	RV College of Engineering, Bengaluru - 560059	Assistant Professor	2017 - Till Date..,
2.	Don Bosco Institute of Technology, Bangalore - 74	Assistant Professor	2015 - 2017
3.	Academy for Technical Management & Excellence College of Engineering, Mysore - 28	Assistant Professor	2014 - 2015
4.	M/s JMC Projects INDIA Ltd. Gujarat - 380015	Assistant Engineer	2011 - 2012
5.	M/s Kris Cooper Project Consultants Ltd. Bengaluru - 560010	Project Engineer.	2010 - 2011
6.	M/s Paradigm - Schuman Josaphat Tunnel, Belgium.	Design & Detailing Engineer	2009 - 2010

Publications & Patents

Journal Publications

1. Gowtham Prasad M E, et al., "Reuse of Ceramic Waste as Aggregate in Concrete" International Research Journal of Engineering and Technology (IRJET), Volume : 03 Issue : 07 | July 2016, EISSN: 2395 – 0056 P-ISSN: 2395 – 0072, www.irjet.net
2. Gowtham Prasad M E, et al., "Evaluation of Roof Diaphragm Effects on Seismic Behaviour of RC Buildings" IJAREM [International Journal of Advanced Research in Engineering & Management], Volume : 03 Issue : 04 | April 2017, ISSN: 2456-2033
3. Gowtham Prasad M E, et al., "Piezohump – A Radical Shift towards Renewable Energy Source" IJLTEMAS [International Journal of Latest Technology in Engineering, Management and Applied Science], Volume : 04 Issue : 04 | April 2017, ISSN: 2278-2540
4. Gowtham Prasad M E and Dr. Nagaraj Sitaram et al., "Applicability of HEC – HMS Tool to Western Ghats – Nethravathi River Basin" IJAREM [International Journal of Advanced Research in Engineering & Management], Volume : 03 Issue : 04 | April 2017, ISSN: 2456-2033
5. Gowtham Prasad M E et al., "An Effluent Treatment Plant in Automotive Axles Limited, Mysuru- A Case Study" Journal of Transportation Engineering and its Applications, Volume:02 Issue:02, 2017
<http://mantechpublications.com/admin/index.php/JoTEAIA/issue/viewIssue/552/581>
6. Gowtham Prasad M E et al., "A Physico-Chemical Analysis of Groundwater Quality Index in Sugar town Area, Mandya" Journal of Water Resource Engineering and Pollution Studies, Volume:02 Issue:02, 2017
<http://mantechpublications.com/admin/index.php/JoVREAPS/issue/viewIssue/560/589>.
7. Gowtham Prasad M E & Shruthi H G et al., "A Survey on Partial Replacement of Sand with Crushed Brick Powder in Concrete" IJIRSET [International Journal of Innovative Research in Science, Engineering and Technology], Volume: 07 Issue: 06 June 2018, ISSN (Online): 2319 – 8753 ISSN (Print): 2347 – 6710, [DOI: 10.15680/IJIRSET.2018.0706044](https://doi.org/10.15680/IJIRSET.2018.0706044)

Conference Papers

8. "Sustainable use of Grey water for Lower Floor Toilet Flushing" – Gowtham Prasad M E, et.al., Third international conference on Nano-technology and materials science, Rome, Italy 2019.
9. Dairy Wastewater treatability studies by soil aquifer treatment system in conjunction with different adsorbents" – Gowtham Prasad M E, et.al., Third international conference on Nano-technology and materials science, Rome, Italy 2019.
10. Gowtham Prasad M E, et al., "Constructional Waste Utilization – A Review" Proceedings of International Conference on Emerging Trends in Engineering, Science & Technology (ICCTEST – 2017) @ Bangkok, 05th – 07th of Jan, 2017. ISBN: 978-81-93119-5-6, <http://thegrenze.com/> DOI: [10.21647/ICCTEST/2017/49095](https://doi.org/10.21647/ICCTEST/2017/49095).
11. Gowtham Prasad M E, et al., "Durability Assessment Methodology for Concrete Structures" Proceedings of International Conference on Emerging Trends in Engineering, Science & Technology (ICCTEST – 2017) at Bangkok, 05th – 07th of Jan, 2017. ISBN: 978-8193119-5-6, <http://thegrenze.com/> DOI: [10.21647/ICCTEST/2017/49094](https://doi.org/10.21647/ICCTEST/2017/49094).
12. Shruthi, H.G., Gowtham Prasad, M.E. (2024). "Experimental Study on Effects of Super Absorbent Polymer (SAP) and Polyethylene Glycol (PEG) as Curing Agents in Concrete" 15th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2024| Conference paper, EID: 2-s2.0-85209125685, Part of ISBN: 9798331300579

Books/Book Chapters

13. Gowtham Prasad, M.E., et al., (2022). Drought Risk Assessment Using NDVI—A Case Study. In: Heggy, E., Bermudez, V., Vermeersch, M. (eds) Sustainable Energy-Water-Environment Nexus in Deserts. Advances in Science, Technology & Innovation. Springer, Cham. https://doi.org/10.1007/978-3-030-76081-6_29.
14. Gowtham Prasad, M.E., et al., (2022). Enviro- Safe Stabilization of Black Cotton Soil—Experimental Study with Optimal Proportion of Stabilizer. In: Heggy, E., Bermudez, V., Vermeersch, M. (eds) Sustainable Energy-Water-Environment Nexus in Deserts. Advances in Science, Technology & Innovation. Springer, Cham. https://doi.org/10.1007/978-3-030-76081-6_90.
15. Gowtham Prasad, M.E., et al., (2024). Experimental Investigation on Influence of Natural Fibres on Strength Properties of Concrete. In: Kolathayar, S., Sreekeshava, K.S., Vinod Chandra Menon, N. (eds) Recent Advances in Building Materials and Technologies. IACESD 2023. Lecture Notes in Civil Engineering, vol 456. Springer, Singapore. https://doi.org/10.1007/978-981-99-9458-8_47
16. Gowtham Prasad, M.E., et al., (2024). "Experimental Study on Effects of Super Absorbent Polymer (SAP) and Polyethylene Glycol (PEG) as Curing Agents in Concrete" 15th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2024| Conference paper, EID: 2-s2.0-85209125685, Part of ISBN: 9798331300579.
17. Gowtham Prasad, M.E., et al., "Soil Stability: An Experimental Investigation Utilizing Bagasse Ash in Combination with Guar Gum and Xanthan Gum Biopolymers" – Tuijin Jishu/Journal of Propulsion Technology ISSN: 1001-4055 Vol. 44 No. 5 (2023), DOI: <https://doi.org/10.52783/tjjpt.v44.i5.2744>.

Patents

1. "Investigative Studies of Wilcox Diagram in Irrigation Water Samples" Application No: 202141056808 A, Publication Date: 31/12/2021
2. "Changes In Metal Leaching from Coal Fly Ash During Wet Storage & Reuse" Application No: 202241002935, Publication Date: 04/02/2022
3. 'Metamorphosis of Fritter Materials – Sustainable Paver Blocks Using LDPE, Rice Husk Ash and Coconut Shell Powder Waste" Application No: 202241044522 A, Publication Date: 12/08/2022

R & Grants & Consultancy Projects

Ongoing & Completed Research Projects

Ongoing & Completed Consultancy Projects

Professional Memberships

- AMERICAN SOCIETY OF CIVIL ENGINEERS (Member ID – 10835518)
- INTERNATIONAL ASSOCIATION OF ENGINEERS (Member ID – 125725)

Awards & Recognitions

- “TRANSCON – Art Of Innovation”, @ MANTHAN – 2015 (A Business Plan Presentation Competition) organized by Federation of Karnataka Chambers of Commerce & Industry (FKCCI) in association with Dept. of Industries & Commerce, Govt. of Karnataka & VTU, Belgaum held on 9th April 2015 @ Hotel Le Meridien, Bengaluru.
- “Sustainable use of Grey Water for the Lower Floor Toilet Flushing”, Best Project – Karnataka State Council for Science and Technology under Student Project Proposal (SPP) – 40th series for the year 2017 & presented at 40th Series of State Level Seminar and Exhibition of SPP projects at NMAM Institute of Technology, Nitte, Karkala Taluk, Udupi District on 11th and 12th August 2017.
- “Intelligent Drip Irrigation System” Karnataka State Council for Science and Technology under Student Project Proposal (SPP) – 40th series for the year 2017 & presented at KSCST exhibition held at BMS College of Engineering, on 27th of May 2017, Bangalore – 19.

Student Supervision

- **M.Tech:** 06 Students
- **Undergraduate Research Mentees:** 88 Students

Professional Roles

- **Editorial Board:**
 - Journal of Environmental Science and Health, Part A
 - International Conference on Recent Advances in Science and Engineering (RAiSE-2023)
- **Chair/Committee Member:**

- Ministry of Education's Innovation Cell : Toycathon - 2021
- **Industry Advisor:**
 - Karnataka Monitoring & Evaluation Authority – GoK
 - Jal Jeevan Mission – GoI
 - Karnataka Urban Water Supply & Drainage Board – GoK
 - Rural Drinking Water and Sanitation Department – GoK
 - M/s STEP – PLUS

Teaching

Core Courses:

- CV365TDE – Integrated Watershed Management
- CV343AI – Mechanics of Fluids
- 21CV73GB – Hydraulic Structures
- CV354TA _ Hydrology & Irrigation Engineering
- CV123ATB _ Elements of Civil Engineering

Advanced/Lab Courses:

- Surveying – I & II,
- Building Planning & Drawing,
- Transportation Engineering – I & II,
- Environmental Engineering – I & II,
- Ground Water Hydrology,
- Open Channel Hydraulics,
- Photogrammetry & Remote Sensing,
- Geographic Information System,
- Water Resources Engineering,
- Design & Drawing of Bridge Structures etc.,

Professional Roles

Responsibilities

- **Academic:** NPTEL – Mentor, UG – Counsellor, QuiklIn – Coordinator, English Language Laboratory – Coordinator. Project Committee – Coordinator, Magazine – Coordinator, Alumni Committee – Coordinator, Concrete Fair – Coordinator.
- **Administrative:** AICTE, NBA, NAAC, VTU – LIC, NIRF, TTO – Member, Infrastructure Committee – Member, Library – Department _ Member, Website Coordinator.

External Connect

- Member of BoS/ BoE
 - M S Ramaiah Institute of Technology,
 - New Horizon College of Engineering,

- Bangalore Institute of Technology,
- PES College of Engineering,
- Dr. Ambedkar Institute of Technology,
- Nitte Meenakshi Institute of Technology,
- Dayanand Sagar College of Engineering,
- VNR Vignana Jyothi Institute of Engineering and Technology.