

CURRICULUM VITAE

ARUNA T

Dedicated, Self-motivated and Enthusiastic Environmental Engineer with 6 years of Industrial experience in sustainable infrastructure design. Passionate about mentoring students and advancing research in water and wastewater treatment technologies.



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Educational Qualification

QUALIFICATION	INSTITUTION NAME	YEAR OF PASSING	CGPA/ PERCENTAGE
M.E. (Environmental Management)	College of Engineering, Guindy	2015	9.16
B.E. (Civil Engineering)	Government College of Engineering, Salem	2013	9.18
Higher Secondary	Kalaimagal Kalvi Nilayam GHSS, Erode	2009	95%
SSLC	Kalaimagal Kalvi Nilayam GHSS, Erode	2007	97%

Achievements

- Secured **UNIVERSITY RANK 1** and awarded **GOLD MEDAL** in M.E. Environmental Management (2013-2015).
- Awarded A.V. Raman Memorial Award and (Late) Shri. E. Sivaraman Nair endowment award for **BEST OUTGOING STUDENT** in M.E. Environmental Management (2013-2015).
- Secured **GATE SCORE - 554** in 2025 GATE exam with 47.7 percentage.
- **ERODE DISTRICT TOPPER** in SSLC exam held on 2007 with 97%.

Work Experience

LARSEN & TOUBRO LIMITED (July 2015 – July 2021)

Assistant Engineering Manager-Construction WET IC

- Hydraulic design of water distribution and wastewater collection networks, SPS design and drawings checking and submission for various tender and operating jobs.
- Integrated network designs for smart cities like Ranchi and Amaravati projects.
- Clash analysis using NAVISWORK software for multiple utility smart city projects.
- Involved in design of sewer network for more than 30 tender projects and 10 operating projects reducing cost by 5% through optimizing the designs.
- Training junior engineers and PGETs in hydraulic modelling software.
- Lead a design team of 5 members for some tender works.
- Collaborated with IIT Madras and Anna University for consultant vetting for projects.

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Projects

M.E. Project work:

A Feasibility Study on Sequencing Batch Biofilm Reactor for the Treatment of AOP Pretreated Textile Dyeing Effluent under the guidance of Prof. Dr. S. Kanmani, Centre for Environmental Studies, CEG, Chennai.

- Design, fabrication and installation of lab scale reactor for SBBR process.
- Collection of real textile dyeing wastewater sample from an ETP located in Tirupur district.
- Pretreatment of sample with AOP ($O_3/UV/H_2O_2$) followed by SBBR.
- Polyester fiber-based biofilm carriers were used as media for attached growth process.
- Studying and evaluating the performance of the lab scale reactor for the combined treatment process of AOP and SBBR for improvement of biodegradability of textile wastewater.
- Achieved 90-95% COD removal and 85 to 90% BOD, SS removal and complete color removal.

B.E. Project Work:

A Study on Geopolymer Concrete performance under guidance of Prof. Dr. P. Senthamil Selvi, Government College of Engineering, Salem.

- Preparation of concrete cube and cylinder samples using geopolymer material.
- Testing the compressive and tensile strength of concrete samples for various percentage replacement of cement with fly ash.
- Evaluating the optimum fly ash percentage to be used for the replacement of cement in concrete for sustainable infrastructure design.

Skills

- Leadership
- Flexibility & Adaptability
- Teamwork & collaboration
- Motivation
- Conflict resolution
- Good Communication skill
- **Software Skills:** Bentley Software (SewerGEMS & WaterGEMS), AUTOCAD
- **Other tools:** QGIS, Navis Manager, Advanced Excel

Vision

- To be an effective contributor for sustainable development goal.
- To be an **INSPIRING PERSONALITY** to students and others.
- Attract various stakeholders for institutional development through research activities.
- Establish or strengthen the academic collaboration with Industries and Institutions.
- Improve the global reputation of the Institution
- Encourage students to pursue career aligned with their core knowledge.