

Jyothi Elizabeth Vince

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EDUCATION

Rajiv Gandhi Institute of Technology (A. P. J. Abdul Kalam Technological University), Kerala, India

Bachelor of Technology (Honors) in Civil Engineering

Exp. 05/2022

GPA: 9.49/10.0

Relevant Coursework: Engineering Hydrology, Water Resources Engineering, Geomatics

INTERNSHIPS

Student Intern (Pollution Abatement of River Manimala) | Water Resources Department, Government of Kerala, India 11/2020 - 02/2021

- Surveyed the pollution outlet points, and effluent treatment systems in factories and hospitals along the banks of River Manimala and suggested solutions.
- Prepared the Detailed Project Report (DPR) under the direction of the National Green Tribunal (NGT) of the Government of India.

Student Intern | Irrigation Department, Government of Kerala, India

07/2019

- Hands-on experience at hydro-meteorological stations.
- Delineated and prepared a map of the watershed of River Periyar using ArcGIS and QGIS.

PUBLICATIONS

- Jyothi Elizabeth V., "Analysis of Spatial and Temporal Rainfall Variations in Meenachil Basin," *International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE)*, Vol. 6, April 2021.
- Jyothi Elizabeth V., "Analysis of Spatial and Temporal Rainfall Variations in Meenachil Basin," *International Conference on Civil, Architectural and Environmental Sciences (ICAES-21)*, March 2021.

PRESENTATIONS

- Jyothi Elizabeth V., "Hydro-Meteorological Approach to Design Flood Estimation: Case Studies," *Rajiv Gandhi Institute of Technology*, November 2021.
- Jyothi Elizabeth Vince, "Flood Susceptibility Mapping of Meenachil Basin, Kerala, India," *2021 Purdue Engineering Virtual Graduate Showcase*, October 2021.

RESEARCH & PROJECTS

- Landslide Prediction Model | Industry Institute Interactive Cell, RIT 09/2020 - Present
- Revisiting the Spillway Capacity using Design Flood | Major Project 08/2021 - Present
- Periyar River Basin: Kerala Floods 2018 | Self-Study 10/2020 - 12/2020
- Kitchen Heat Recovery System | Minor Project 08/2020 - 02/2021

LEADERSHIP & ACHIEVEMENTS

- Civil Engineering Association, RIT – Joint Secretary 08/2019 - Present
- Inter-Collegiate Evangelical Union – President 07/2021 - Present
- GRE: 317 (Q 168, V 149, AWA: 4.0), IELTS: 8.0 (L 8.5, S 7.5, R 8.5, W 7.0)
- Map published in the *2021 Esri User Conference Map Gallery* 06/2021
- *Graduate Aptitude Test in Engineering (GATE) 2021* qualified 02/2021
- 'Notable Participant' in the *IITB-ISRO-AICTE Mapathon* 12/2020

ADDITIONAL INFORMATION

Technical Skills: Software – ArcGIS Pro, QGIS, HEC-HMS, AutoCAD, STAAD Pro, MS Office.

Interests: Reading, creating maps, and playing the piano.

CERTIFICATIONS & WEBINARS

- GIS, Mapping, and Spatial Analysis (Specialization) on **Coursera** by the **University of Toronto**.
- Geographic Information System (GIS) (3 courses) on **Coursera** by the **University of California, Davis**.
- Geospatial Applications for Disaster Risk Management (Phase-II) by **CSSTEAP & UN-SPIDER**.
- Gain Competitive Advantage with High-Res Geospatial Data: AI, 3D and Ortho Imagery by **ASCE**.
- Optimized Hydrologic Aids Forecasts and Projections for Improved Decision-Making by **Esri**.
- Remote Sensing and Digital Image Processing of Satellite Data on **NPTEL** by **IIT Roorkee**.