

# MUFEE DACT

GEOLOGY LECTURER

## CONTACT

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## PROFILE SUMMARY

Dedicated and knowledgeable Geology Lecturer with strong academic and professional expertise in Geology and Geographic information system(GIS). Possesses experience in teaching undergraduate students, designing curriculum, conducting practical sessions, and guiding research projects in Geology and Gis applications. Experienced in applying Gis techniques to geological studies including landform analysis, groundwater mapping, structural geology and environmental assessment.

## EDUCATION

### CALICUT UNIVERSITY

- MSC Applied Geology

### CALICUT UNIVERSITY

- BSC Geology

## SKILLS

- Ability to create different maps using GIS
- Strong communication and presentation skills
- Analytical thinking and problem solving
- Team collaboration and Leadership
- Time management and multitasking
- Adaptability and continuous learning
- Attention to detail

## WORK EXPERIENCE

### KVUMDHO COLLEGE

2025-PRESENT

Lecturer

- Taught core Geology subjects such as Structural Geology, Metamorphic petrology, GIS and remote sensing to undergraduate students.
- Designed and implemented lesson plans and lab work, aligned with the academic curriculum and university standards.
- Mentored and guided students in academic projects, seminars, and research presentations.
- Prepared and evaluated assignments, examinations.
- Participated in departmental meetings, curriculum development, and academic planning.

### GEEWAS ENVIRONMENTAL CAMPUS

2024-2025

GIS TRAINER

- Conducted comprehensive training sessions on GIS softwares including ARCGIS and QGIS for students and professionals.
- Designed and delivered hands - on modules on spatial data analysis, cartography, geodatabase management, and remote sensing techniques.
- Guided trainees in GIS based project work, including map creation, geoprocessing tasks, and field data integration.
- Provided support in troubleshooting technical issues and improving learner's understanding of GIS concepts and tools.
- Collaborated with academic and industry professionals to stay updated on GIS advancements and incorporate them into the training syllabus.
- Ensured successful training outcomes through periodic assessments, feedback sessions, and skill development tracking.

## JUNIOR GIS ANALYST

- Collecting, analyzing and interpreting data and providing advice and information to various organizations on a range of issues.
- Studied Advanced GIS course and became a part of multiple projects.
- Performed spatial analysis, Digitization, Cartography, Topology, Network Analysis, Raster data and image processing, 3D visualization and Geodatabase management.
- Developed skills in ArcMap 10.8, ArcGIS Pro, ArcGIS online, Google earth pro and Microsoft office.
- Stay updated with the latest GIS technologies and methodologies.

## TECHNICAL SKILLS

- ARCGIS DESKTOP
- ARCGIS PRO
- QGIS
- REMOTE SENSING AND SATELLITE IMAGE INTERPRETATION
- SPATIAL DATA ANALYSIS AND VISUALIZATION
- GEODATABASE MANAGEMENT
- GOOGLE EARTH PRO
- AUTOCAD
- LIDAR
- CARTOGRAPHY AND THEMATIC MAP DESIGN
- MS OFFICE SUITE (EXCEL, WORD, POWERPOINT)

## PROJECTS

### LANDSLIDE HAZARD ZONATION USING REMOTE SENSING AND GIS

- Collected and preprocessed remote sensing data and satellite images for the landslide prone area.
- Derived key thematic layers such as slope, aspect, elevation, land use/land cover, soil type, and drainage using DEM and satellite imagery.
- Conducted multi criteria evaluation and applied Weighted overlay analysis method based on causative factors for landslide susceptibility.
- Integrated various GIS layers to generate a Landslide Hazard Zonation (LHZ) map.
- Validated the LHZ map using historical landslide occurrence data and field verification.
- Applied knowledge of geospatial data handling and analysis to support disaster risk reduction efforts.

### ROUTE OPTIMIZATION FOR WASTE TRANSPORTATION IN ERNAKULAM MUNICIPALITY.

- Identified the shortest and quickest path from multiple locations to the Bhramapuram waste plant.
- Data collection of waste locations in Ernakulam District.
- Optimized vehicle routes for waste transportation.
- Performed closest facility to find the suitable path to reach the location efficiently.

### MORPHOMETRIC ANALYSIS AND WATERSHED DELINEATION OF CHERUPUZHA RIVER BASIN.

- Identified the river basin characteristics.
- Performed Arc Hydro for the Watershed delineation.
- Identified the physical boundaries for understanding the hydrological process.
- Established the relation between geomorphology and the flow direction of the river.
- Prepared Geological as well as Soil maps to identify the erosion prone area

## LANGUAGES

- ENGLISH - Fluent
- MALAYALAM - Fluent
- ARABIC -Basic

## CERTIFICATION

- **ADVANCED TRAINING IN GIS AND REMOTE SENSING**