

**SNOW COVER MAPPING OF BARA SHIGRI GLACIER,  
WESTERN HIMALAYA, USING OPTICAL AND  
MICROWAVE REMOTE SENSING TECHNIQUES**

DISSERTATION REPORT SUBMITTED TO  
THE UNIVERSITY OF CALICUT  
IN THE PARTIAL FULFILMENT FOR THE AWARD OF

**MASTER OF SCIENCE IN APPLIED GEOLOGY**



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**(Affiliated to University of Calicut and re-accredited by  
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# **Pleistocene ice-rafted debris deposition and its provenance in the Indian sector of the Southern Ocean**

Dissertation submitted to Christ College (Autonomous), Irinjalakuda, Kerala,  
under University of Calicut in partial fulfilment of the degree of

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**August 2022**

**Geospatial and MCDM tool mix based DRASTIC-L Model for  
the Groundwater Vulnerability Assessment in Lowland and  
Midland Phreatic Aquifer System of Thrissur District, Kerala**

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**UNDER THE GUIDANCE OF**

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**RECONSTRUCTING SEDIMENTATION HISTORY AND  
HYDRODYNAMIC CONDITIONS IN THE VEMBANAD LAKE USING  
GRAIN SIZE ANALYSIS AND END MEMBER DECOMPOSITION**

A DISSERTATION SUBMITTED TO CHRIST COLLEGE AUTONOMOUS,  
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**SPATIO - TEMPORAL ASSESSMENT OF KUTHIRAN TUNNEL,  
THRISSUR, KERALA BY USING REMOTE SENSING AND GIS**

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**ESTIMATION OF SOIL EROSION USING REVISED SOIL LOSS  
EQUATION AND GEOSPATIAL TECHNOLOGY, A PART OF  
WESTERN GHATS, IN EASTERN THRISSUR DISTRICT**

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**August 202**

# **WATERSHED PRIORITIZATION IN TRIVANDRUM DISTRICT USING AHP AND GEOSPATIAL TECHNOLOGY**

Dissertation submitted to Christ College (Autonomous), Irinjalakuda, Kerala,  
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**JUNE 2022**

# **GEOPHYSICAL MODELLING OF ALLUVIAL AQUIFER OF CHALAKUDY RIVER BASIN**

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**SOURCE TO SINK SEDIMENT CHARACTERIZATION OF  
BHARATHAPUZHA RIVER BASIN, KERALA.**

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**ASSESSMENT OF SEAWATER INTRUSION IN THE  
COASTAL REGIONS OF KODUGALLUR -CHAMAKKALA,  
THRISSUR, KERALA**

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# **TERRAIN ANALYSIS FOR MULTI HAZARD SUSCEPTIBILITY DELINEATION OF PAMPA BASIN USING AHP**

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**REMOTE SENSING AND GIS BASED GROUNDWATER POTENTIAL ZONE  
MAPPING IN MULANKUNNATHUKAVU GRAMAPANCHAYAT, THRISSUR,  
KERALA**

Dissertation submitted to Christ College(Autonomous), Irinjalakuda,Kerala,under  
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**SPATIO -TEMPORAL DROUGHT ASSESSMENT OF THRISSUR DISTRICT  
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**SNOW COVER MAPPING OF SAMUDRA TAPU GLACIER,  
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# **UNDERSTANDING THE SIGNIFICANCE OF LULC ANALYSIS IN THRISSUR DISTRICT, CENTRAL KERALA**

DISSERTATION REPORT SUBMITTED TO THE UNIVERSITY OF CALICUT IN  
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