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CERTIFICATE

This is to certify that the dissertation entitled "*SPACE-BASED ASSESSMENT OF FOREST FIRE RISK ZONE MAPPING : A CASE STUDY OF PATHANAMTHITTA DISTRICT, KERALA*" is an authentic record of work done by Mr. ABHINAY SUGATH. P. S. as a part of fulfillment of his M.Sc. Geology under the guidance of, **Dr. Sumith Satheendran S.** Assistant Professor, Department of Chemistry, Amrita Vishwa Vidhyapeetham, Kollam.

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Date: 12/9/23

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This is to certify that the dissertation entitles "Multi-criteria Evaluation and Least Cost Path Analysis for Cable Car Alignment from Pamba to Sabarimala Sannidhanam" is an authentic record of work done by ANANDHU ANAND as a part of fulfilment of his M.Sc. Geology under the guidance of, **Dr. Sumith Satheendran S.** Assistant Professor, Department of Chemistry, Amrita Vishwa Vidyapeetham, Kollam.

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This is to certify that the dissertation work on "PALAEOCLIMATIC RECONSTRUCTION ON DEEP SEA SEDIMENT CORE FROM MIDDLE INDUS FAN, ARABIAN SEA: SIGNIFICANCE ON PLANKTONIC FORAMINIFERA" is a bonafide record work done by Miss. Anu Suresh (210011017043) in partial fulfilment of the requirements for the award of degree in Master of Science in Geology during the academic year 2021-2023.

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This is to certify that the dissertation entitled "*SURFACE DISTRIBUTION OF FORAMINIFERA IN THE SEABED SEDIMENTS OFF KASARAGOD TO OFF PARAVUR (0-50m), KERALA*" is an authentic record of work done by Miss. ARATHY RAJ, as a part of fulfilment of her M.Sc. Geology under the guidance of, Mr. MANOJ KUMAR K, Senior Geologist, Geological Survey of India, Mangalore.


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This is to certify that the dissertation entitles "GEOINFORMATICS BASED TOURISM MAPPING: A CASE STUDY OF PATHANAMTHITTA, HEADQUARTERS OF PILGRIMAGE TOURISM" is an authentic record of work done by ARAVIND.S. S. as a part of fulfilment of his M.Sc. Geology under the guidance of, **Dr. Sumith Satheendran S.** Assistant Professor, Department of Chemistry, Amrita Vishwa Vidyapeetham, Kollam.

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This is to certify that the dissertation entitled "*GROUNDWATER STATUS OF VALAKOM GRAMAPANCHAYATH, ERNAKULAM DISTRICT-AN AHP AND GIS APPROACH*" is an authentic record of work done by Miss. **CHIPPY ABRAHAM**, as a part of fulfilment of her M.Sc. Geology under the guidance of, **DR. ARUN P.R.**, Senior Scientist, Centre For Water Resources Development And Management, Kozhikode

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This is to certify that the dissertation entitled "*STUDIES ON SEDIMENTOLOGY AND COARSE FRACTION OF SEABED SEDIMENTS OFF CHAVARA, WEST COAST, KERALA*" is an authentic record of work done by Miss.LINTA.L.S, as a part of fulfillment of her M.Sc. Geology under the guidance of, V. JAGANATHAN Senior Geologist, Geological Survey of India, Mangalore.

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CERTIFICATE

This is to certify that the dissertation entitled "*GIS-BASED LANDSLIDE SUSCEPTIBILITY MAPPING OF PATHANAMTHITTA DISTRICT, KERALA*" is an authentic record of work done by **Mr. NIKHIL P. R.**, as a part of fulfilment of her M.Sc. Geology under the guidance of, **DR. SUMITH SATHEENDRAN S**, Assistant Professor, Amrita School of Physical Sciences, Department of Chemistry, Amritapuri Campus, Kollam.

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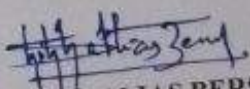
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This is to certify that the dissertation entitled "*SPATIO-TEMPORAL ESTIMATION OF URBAN GROWTH: A CASE STUDY OF RANNI TALUK, PATHANAMTHITTA, KERALA*" is an authentic record of work done by Mr. **NIKHIL MON M. N.**, as a part of fulfilment of her M.Sc. Geology under the guidance of, **DR. SUMITH SATHEENDRAN S**, Assistant Professor, Amrita School of Physical Sciences, Department of Chemistry, Amritapuri Campus, Kollam.

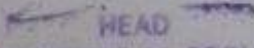

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This is to certify that the dissertation entitles “**Drinking Water Distribution Mapping of Kerala Water Authority (KWA), Pathanamthitta Municipality: A Geospatial Approach**” is an authentic record of work done by **SHERIN K. SURESH** as a part of fulfilment of his M.Sc. Geology under the guidance of, **Dr. Sumith Satheendran S.** Assistant Professor, Department of Chemistry, Amrita Vishwa Vidyapeetham, Kollam.

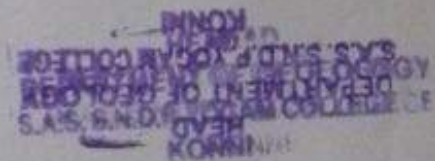
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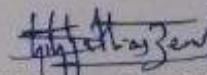


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This is to certify that the dissertation entitled "*LANDSLIDE POTENTIAL ZONATION OF MALAPPURAM DISTRICT, KERALA, INDIA*" is an authentic record of work done by **Miss. SILPA P. AJAY**, as a part of fulfilment of her M.Sc. Geology under the guidance of, **Dr. THRIVIKRAMJI K. P**, Professor Emeritus and Programme Director, Centre For Environment and Development (CED), Thiruvananthapuram.


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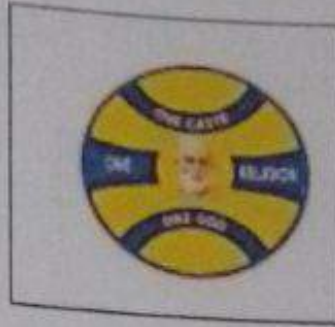
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This is to certify that the dissertation entitled "SPACE-BASED DISASTER MAPPING AND ASSESSMENT: A CASE STUDY OF PATHANAMTHITTA DISTRICT, CENTRAL TRAVANCORE REGION " is an authentic record of work done by Mr. SREEJITH S NAIR as a part of fulfillment of his M.Sc. Geology under the guidance of Dr. SUMITH SATHEENDRAN S, Assistant Professor (Thesis Supervisor), School Of Physical Sciences, Department Of Chemistry, Amrita Vishwa Vidyapeetham, Amritapuri Campus, Kollam

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