

J. M. Lalani Madhushankha

(M.Sc., B.Sc. Eng.(Hons)(UoM,SL), AMIE(SL))

No 21/A, Kuruduwata Lane, Issadeen Town, Matara, Sri Lanka

Email : lanimadhusankha@gmail.com

Mobile: +94710937094



Educational Qualifications

M.Sc. in Water Resources Engineering and Management (Fulltime SAF Scholarship), UNESCO Madanjeet Singh Centre for South Asia Water Management, Department of Civil Engineering, University of Moratuwa(2020), GPA 3.95/4.2

B. Sc. (Hons) Engineering in Earth Resources Engineering, Department of Earth Resources Engineering, University of Moratuwa(2017), GPA 3.75/4.2- **First Class**

Publications

Journal

J.M.L. Madhushankha, N.T.S. Wijesekera “*Application of HEC-HMS Model to Estimate Daily Streamflow in Baddegama Watershed of Gin Ganga Basin Sri Lanka*”, Accepted to be published in The Journal of Institute of Engineers Sri Lanka (IESL) on January 2021 Issue.

Conferences

J.M.L. Madhushankha, A.R.B. Madhuwan, P. Menan, S.P. Chaminda, A.M.K.B. Abeysinghe, C.L. Jayawardena (2017) “*Assessment of Seasonal Impacts on Groundwater Quantity and Quality in Upstream of Malwathu Oya Basin*”, International Symposium on Earth Resources Management & Environment (ISERME) 2017

J.M.L. Madhushankha, N.T.S. Wijesekera (2019) “*Parameter Transferability Options for Process-Based Streamflow Modeling of Ungauged Sub-Watersheds*”, International Conference on Civil Engineering and Applications (ICCEA) 2019

Academic Research and Projects

Sep 2018-Sep 2019 **HEC-HMS Model Parameter Transferability for Daily Streamflow Estimation in Gin Ganga Basin**

Master Thesis- Developed models for Baddegama and Thawalama in order to assess transferability of HEC-HMS model parameter in Gin Ganga Basin, Sri Lanka

Sep 2018-Jan 2019 **IWRM to mitigate the degradation of water quality in an ungauged urbanized watershed in Kesbewa, Sri Lanka**

Individual problem-based learning (PBL) project done for Integrated Water Resources Management module

Identification of Drought Risk areas by using GIS techniques in Hambanthota District, Sri Lanka

Individual problem-based learning (PBL) project done for Remote Sensing and Geographic Information System for Planning and Management module.

Developing Rainfall Runoff Model for Kesbewa South Watershed to Improve Flood Mitigation Measures of the Area

Individual problem-based learning (PBL) project done for Advanced Surface and Groundwater Hydrology module

Jan 2019-May 2019

GIS based Tool to Delineate Groundwater Recharge Potential Zones in Badulla, Sri Lanka

Individual problem-based learning (PBL) project done for Advanced GIS for Water Resources Planning and Management module

Flood Risk Management using HEC-HMS and HEC-RAS Models in Coastal Areas- A Case Study of Thalwila Estuary on Nainamadama Irnawila-Chilaw Road

Individual problem-based learning (PBL) project done for Advanced River Engineering and Estuary Hydraulics module

A Postgraduate Student's Vision for Sustainable Water Management from a National Perspective-Lalani Jayaweera's Vision Based on a Case Study using Analytical Hierarchy Process

Individual problem-based learning (PBL) project done for Research Methods for Water Resources Engineering and Management module

May 2019-Sep 2019

Irrigation Water Management at the Debara Ara Reservoir

Individual problem-based learning (PBL) project done for Advanced Irrigation Water Management for Food and Water Security module

Climate Change Impact on Irrigation Water Management at the Debara Ara Reservoir

Individual problem-based learning (PBL) project done Climate Change Impacts and Adaptation /options for Water Management module

Nov 2016-Feb 2017

Assessment of Seasonal Impacts on Groundwater Quantity and Quality in Upstream of Malwathu Oya River Basin

Bachelors Research Project- This was a group research project where my contributions involved as a leader throughout the project

June 2016-Oct 2016

Designing a Rescue Borehole for an Underground Mine for Bogala Mine

This was my final year design project where my contributions involved as a leader throughout the project

Professional Experience

Nov 2020 – Now

Lecturer (Probationary), Department of Limnology and Water Technology, Faculty of Fisheries and Marine Sciences & Technology, University of Ruhuna, Sri Lanka

Subjects: Groundwater Exploration, Hydraulics, Irrigation, Biomathematics.

Jan 2020- Nov 2020

Temporary Lecturer, Department of Limnology and Water Technology, Faculty of Fisheries and Marine Sciences & Technology, University of Ruhuna, Sri Lanka

Subjects: Groundwater Exploration, Hydraulics and Irrigation.

Sep 2018-Sep 2019

Full-Time Scholarship Master Student, UNESCO Madanjeet Singh Centre for South Asia Water Management, Department of Civil Engineering, University of Moratuwa, Sri Lanka.

Feb 2018-Aug 2018

Temporary Demonstrator, Department of Civil Engineering, The Open University of Sri Lanka, Nugegoda, Sri Lanka

Subjects: Geotechnical, Environmental and Engineering Geology.

Nov 2017-Feb 2018

Trainee Geotechnical Engineer, Geotech (Pvt) Ltd, Sri Lanka

Apr 2017-Oct 2017 **Temporary Demonstrator**, Department of Earth Resources Engineering, University of Moratuwa, Sri Lanka
Subject: Rock Mechanics, Soil Mechanics, Analytical Methods, Mining and Mineral Processing Engineering and Petrology.

Apr 2015- Oct 2016 **Trainee Engineer**, Greater Colombo Wastewater Management Project, Colombo-07, Sri Lanka

Other Experiences

- Successfully participated as an instructor to the Survey Campaign programme (Road Survey and Traverse Survey) at The Open University Kandy Centre, Polgolla on March 2018.
- Successfully completed the workshop on SWAT modelling at Gin Ganga Basin conducted on January 2019.

Computer Skills

HEC-HMS	HEC-RAS & GeoRAS	SWAT	ENVI	AutoCAD	ArcGIS
---------	------------------	------	------	---------	--------

Professional Membership

Associate Member of Institute of Engineers Sri Lanka
Associate Engineer of Engineering Council, Sri Lanka