

FIELD VISITS & GUEST LECTURES

SUMMARY 2023

Department of Agriculture Engineering and Soil Science

Faculty of Agriculture

Rajarata University of Sri Lanka

Place of the Academic Field Visit – Jaffna

Course – Soils of Sri Lanka (ES 4105)

Objective – To observe and identify the characteristics of Dry zone Soils of Sri Lanka

Date – 09/06/2023



Place of the Academic Field Visit – Farm Mechanization Research Centre (FMRC), Mahailupallama

Course – Advanced Agricultural Machinery and Management (ES 4101)

Objective – To familiarize with the testing and evaluation of farm machinery

Date – 23/06/2023



Place of the Academic Field Visit – Technology park of NERD center

Course – Energy Production and Management (ES 4103)

Objective – To visit the Technology Park of the NERD center

Date – 27/06/2023



Place of the Academic Field Visit – Uttimaduwa

Course – Water Resources of Sri Lanka (ES 4107)

Objective – To visit different types of tanks in a tank cascade system

Date – 29/06/2023



Place of the Academic Field Visit – Sivalakulama Cascade

Course – Groundwater Engineering (ES 3207)

Objective – To observe Ground Water Exploration methods

Date – 22/08/2023



Place of the Academic Field Visit – Faculty of Technology, Rajarata University of Sri Lanka

Course– Engineering Structure Development (ES 3205)

Objective – To familiarize with the stress-strain relationship of materials

Date – 18/09/2023



Place of the Academic Field Visit – Food Research Unit, Gannoruwa

Course– Food Process Engineering (ES 3206)

Objective – To familiarize with food processing machines

Date – 19/09/2023



Place of the Academic Field Visit – Thuppitiyava Village, Thanthrimalae

Subject – Watershed Management (ES 3219)

Objective – Demonstrations on Sustainable Land Management Practices

Date – 26/09/2023



Place of the Academic Field Visit – Cocotana Coconut Products, Negombo

Course – Food Process Engineering (ES 3206)

Objective – To familiarize with the food processing industry

Date – 02/10/2023



Place of the Academic Field Visit – Mahaweli System B and System C

Course – Integrated Water Resource Management (ES 3208)

Objective – To visit the Mahaweli System B and System C

Date – 05/10/2023 & 06/10/2023



Place of the Academic Field Visit – National Institute of Fundamental Studies (NIFS)

Course– Soil Microbiology (ES 3215)

Objective – To aware students on the initial preparation of Biofilm Biofertilizers

Date – 18/10/2023



Place of the Academic Field Visit – Department of Export Agriculture, Central Research Station, Matala

Course – Soil Microbiology (ES 3215)

Objective – Practical demonstrations of mycorrhizae spore isolation technique

Date – 18/10/2023



Place of the Academic Field Visit – Field Crop Research & Development Institute (FCRDI)

Course – Soil Survey and Classification (ES 3216)

Objective – To identify the profile characteristics of the dry zone soil catena

Date – 24/10/2023




Guest Lecturer – Climate Change Impacts on Water Services and Utilities

Resource person - Prof. Harsha Ratnaweera

Date – 08/05/2023

Rajarata University of Sri Lanka
Faculty of Agriculture




**Climate Change Impacts on
Water Services and Utilities**

08 May 2023 Monday @ 1.30 pm to 3.30 pm
Auditorium
Faculty of Agriculture

Abstract
Climate Change is impacting most around us. Water is not an exception. Access to safe water and acceptable sanitary conditions is already a challenge for many parts of the world. Climate change is lead to reductions in water availability. The limited water resource we have to share, can become even less and with poorer quality. It may affect the human heath, environment and may lead to huge economical losses to our societies. In addition to looking for actions to reduce Climate Change, which often seems difficult, there are options to reduce impacts of Climate Change to our lives and environment. This presentation gives an overview of challenges, options to minimize the impacts and the adaptation on water service utility due to the climate change.

Speaker
Dr Harsha Ratnaweera in an IWA Fellow and has been a professor in water and wastewater engineering at Norwegian University of Life Sciences (NMBU), since 2012. Before NMBU, he was the Director of International Projects and Innovation at the Norwegian Institute for Water Research. He holds a PhD degree in civil engineering (1992) from the Norwegian University of Science and Technology (NTNU) and an MSc (Hons) Chemical Engineering (1987) from the National Technical University of Ukraine KPI, Ukraine.

Dr Ratnaweera's research areas are surveillance, modelling, control and optimisation of water & wastewater processes. During the last years his research is focusing on digitalisation and circular economy in the water sector. He is a Director of the Board of International Water Association (IWA) and Vice President (elect) of the European Water Association (EWA). He has served as Chairman and Board Member in several water and environment-related Organisations in Norway. He has worked as a consultant to the World Bank, UNECE, the Norwegian Ministry of Foreign Affairs, NORAD, and SIDA. He initiated the global educational and research network- Water Harmony (www.waternorway.org) in 2012 which has members from 54 countries. Harsha started collaborating with Sri Lankan universities in 2013 and with the Rajarata University of Sri Lanka since 2021.



Prof. Harsha Ratnaweera.
IWA Fellow,
Professor, NMBU, Norway