



Certificate in Application of Geographical Information System (GIS) Techniques for Disaster Risk Reduction and Management (DRR+M)

Introduction and Course Rationale:

Climate Change Impacts have adversely been escalated throughout the world. This is because the occurrence of unexpected natural calamities such as torrential rains, mas flooding events, landslides and storms has dramatically been accelerated in the Sri Lankan context as well for decades. The bad consequences of those natural calamities are very serious including loss of lives, loss of livelihoods and properties of hundreds of thousands of people and so on. This is because the application of GIS/Geo-information technologies for Disaster Risk Reduction and Management has been come to the fore. Especially there is a lacking of the application of GIS technologies for DRR+M in the Sri Lankan context. In order to fill this gap, the Department of Geography, University of Colombo is planning to offer a Certificate course in Application of Geographical Information System (GIS) Techniques for Disaster Risk Reduction and Management (DRR+M) probably since July/2022 for the stakeholders in the field of Disaster Management and related working backgrounds. Thus, this certificate will be impacted in training and improving the knowledge on the DRR+M context plus disaster preparedness practices in Sri Lanka.

Course Content:

- ♦ Introduction to the conceptual contexts of disaster risk analysis/assessment; disaster risk reduction; and management
- ♦ Introduction to the key methods of Spatial data gathering/collection
- ♦ Introduction to the key elements of spatial data analysis in GIS
- ♦ Key concepts and methods in Disaster Risk Reduction (DRR) and Management
- ♦ Assessing and Modelling Disaster Vulnerability and Resilience
- ♦ The UNDRR mechanism of Disaster management and risk reduction
- ♦ GIS applications in disaster risk analysis/assessment; Mapping; disaster risk reduction; and management
- ♦ Modelling and simulating of local disaster management approaches/mechanisms with the application of spatial techniques

Duration of the Course:

80 Hours

**Teaching
+
Practical**

Target Group:

DRR+M stakeholders and practitioners

Pedagogical Methods:

Online teaching Mode including case study analysis

Mediums: Sinhalese and English

Admission requirements:

- GCE/AL or above
- At least one year experience in relevant field (e.g. DRR+M)

Course Fee and other charges (LKR):

- Course fee: 40,000.00
- Application Fee: 1000.00
- Registration Fee: 2,500.00

Applications should be sent to:

The Head,
Department of Geography,
University of Colombo.

Contact: Coordinator, 0112-500458

Application and all the details can be downloaded: www.websitelink

**Date of
Commencement:
20th July 2023**

**Closing Date of
Application:
20/06/2023**