

Course Title	Climate Change and Disaster Management			Course Code	BST 22222		
Year	2	Semester	2	Credits	02	Theory (hr)	20
						Practical (hr)	20
						Independent Learning (hr)	10

Aim of the Course:

To provide fundamental understanding of the drivers of global environmental change resulting environmental degradation and tools to slow down or address environmental damage

Intended Learning Outcomes:

After completion of this course, the learner should be able to:

- Describe the impact of climate change on eco-systems.
- Identify the climate and weather extremes and their likelihood of occurrence.
- Identify the strategies for disaster management.
- Explain the disaster management cycle and key actors in each phase.
- Describe the disaster management response interventions.

Course Capsule:

Theory
Introduction to climate change, Global and regional nature of the climate system; Earth's energy balance natural temporal variability in the climate system; Observed climate variability, projected changes and extreme climate phenomena and their likelihood; Human impacts on the climate system: Atmospheric greenhouse gas enhancement, Atmospheric aerosol enhancement, Change of radioactive effects of clouds; Consequences of climate change; Mitigation / adaptation strategies; Disaster management: Key concepts around disaster risk management; Impacts and needs assessment: Assess rapidly the dimension of disasters using geospatial data; Key challenges of disaster risk response: Key areas of the disaster response phases and challenges linked to coordination on different levels; Disaster recovery and reconstruction, Disaster preparedness; Critical areas of disaster preparedness menu and challenges linked to institutional and legal frame work; Vulnerability and capacity assessment, Knowledge management as building blocks of disaster preparedness; Disaster mitigation

Practical
Writing an assignment – Major disaster management tools, services and their relevance under Sri Lankan situation; Understanding of the Sri Lanka REDD program – Interactive session; Field visit – observations on a site subjected to repeated natural disasters; Team presentation – Impact of natural disasters on food security, livelihoods and community health

Assessment:

Continuous assessment: 30%
 End semester assessment: 70%