

SCC 606: CLIMATE CHANGE AND ENVIRONMENTAL SUSTAINABILITY

Introduction

“Climate change and environmental sustainability” is a core course for those registered for Master of Science in Climate Change. While this course does not require a prerequisite, a basic knowledge in climate science will enable the learner to grasp the concepts presented in this course.

While Climate change and environmental sustainability is offered to the student studying for Master of Science in Climate Change it is may be offered to graduate students studying any other field who wish to gain knowledge in Climate Change and environmental sustainability.

The course is organized in following nine areas:

- Principles of environmental sustainability:
- Polluter pays principle;
- Land use change and environmental degradation:
- Monitoring of environmental change:
- satellite systems and data sets;
- Environmental Impact Assessment;
- Environmental Audit;
- Climate extremes and environmental sustainability;
- Carbon trade.

Course Objectives

At the end of this unit, you should be able to:

- (i) Discuss the principles of environmental sustainability:
- (ii) Analyze ‘Polluter pays principle’
- (iii) Explain the relationship between Land use change and environmental degradation:
- (iv) Describe how environmental change is monitored
- (v) Discuss the application satellite data in environmental monitoring
- (vi) Describe the procedure of carrying out Environmental Impact Assessment
- (vii) Explain the mechanism Environmental Audit;
- (viii) Discuss the impact of climate extremes on environmental sustainability
- (ix) Discuss the importance of Carbon Trade in regard to environmental sustainability.

