

**Outlines of**

**5 Modules**

**Module 1: Introduction to Climate Change**

1. **HOW AND WHY THE CLIMATE IS CHANGING**

1.1. Introduction to Climate Science and Climate Change

1.2. Causes of Climate Change

1.3. Climate Intensification: Floods, Droughts and Cyclones

1. **IMPACTS OF CLIMATE CHANGE ON PEOPLE AND THE ENVIRONMENT**

2.1. Introduction to Climate Change Impacts

2.2. Sea Level Rise

2.3. Climate Change and Water Resources

2.4. Climate Change and Food Security

2.5. Climate Change and Human Health

2.6. Climate Change and Terrestrial Ecosystems

1. **REPONSES AND ADAPTATION TO CLIMATE CHANGE**

3.1. Climate Change and Forest Management

3.2. Climate Change and Water Resources: Responses and Adaptation

3.3. Principles and Practice of Climate Vulnerability Assessment

3.4. Uncertainties in Climate Change

3.5. Climate Change and Ecosystem Services

3.6. Effective Communications in Climate Change

**Module 2: REDD+ in Climate Change Context**

1. **ENABLING ENVIRONMENT OF REDD+**

1.1. Forests, Forest Carbon and Climate Change

1.2. Fundamentals of REDD+ and the UNFCCC

1.3. Stakeholder Engagement

1. **ASSESSING CURRENT CONDITIONS OF REDD+**

2.1. Drivers of Deforestation and Forest Degradation

2.2. Fundamentals of Forest (Emission) Reference Levels

2.3. National Forest Monitoring Systems (NFMS) for REDD+

1. **ANALYZING FUTURE OPTIONS FOR REDD+**

3.1. Policies and Measures for REDD+ Implementation

3.2. REDD+ Safeguards under the UNFCCC

3.3. The Costs and Benefits of REDD+

1. **DEVELOPING REDD+ STRATEGIES AND ACTION PLANS**

4.1. Negotiation and Prioritization

4.2. National Strategies and Action Plans

4.3. Approaches for Incentive Allocation System

1. **MONITORING, EVALUATION AND ADAPTATION**

5.1. Establish M&E Framework for REDD+ Action Plan

5.2. Monitor and Measure Implementation Progress

5.3. Evaluate, Report and Adapt

**Module 3: Forest Carbon Measurement and Monitoring**

1. **FUNDAMENTALS OF FOREST CARBON IN REDD+ CONTEXT**

1.1. Forests, the Global Carbon Cycle and Climate Change

1.2. The Roles of Forests and Forest Carbon in Global Climate Negotiations

1.3. Challenges for Forest-based Climate Change Mitigation

1. **FOREST CARBON STOCKS AND IPCC GUIDELINES**

2.1. Overview of Forest Carbon Pools (Stocks)

2.2. Land Use, Land Use Change, and Forestry (LULUCF)

2.3. IPCC Guidelines for Forest Carbon Measurement and Monitoring

2.4. Reference Levels – Monitoring against a Baseline

1. **FOREST CARBON MEASUREMENT AND MONITORING METHODS**

3.1. Overview of Forest Carbon Measurement and Monitoring

3.2. Quality Assurance and Quality Control (QA/QC)

3.3. Field Sampling Design Methods

3.4. Forest Carbon Field Measurement Methods

3.5. Carbon Stock Calculation and Available Tools

3.6. Creating Activity Data and Emissions Factors

3.7. Considerations in Developing a Monitoring System

**Module 4: Climate-Resilient Ecosystem Conservation**

1. **FUNDAMENTALS OF CLIMATE-RESILIENT ECOSYSTEM CONSERVATION**

1.1. Basics of Ecosystem Conservation

1.2. Drivers of Biodiversity Loss

1.3. Guiding Principles and Cross-Cutting Themes

1. **CONSERVING HEALTHY ECOSYSTEMS FOR CLIMATE CHANGE ADAPTATION**

2.1. Climate Vulnerability and Climate Resilience

2.2. Healthy Ecosystems to Adapt Livelihoods to Climate Change

1. **WETLAND ECOSYSTEM CONSERVATION FOR CLIMATE CHANGE ADAPTATION**

3.1. Ecosystem-based Adaptation

3.2. Wetlands for Climate Change Adaptation

3.3. Wetlands and Ecosystem Services

3.4. Mangrove Forests for Climate Change Adaptation

1. **CLIMATE-RESILIENT ECOSYSTEM CONSERVATION IN BANGLADESH**

4.1. Adaptation in Wetlands and Forests in Bangladesh

4.2. Functions and Services of Forest Ecosystems in Bangladesh

4.3. Fisheries Management in Bangladesh

**Module 5: Co-Management of Natural Resources**

1. **FUNDAMENTALS OF CO-MANAGEMENT OF NATURAL RESOURCES**

1.1. Natural Resource Institutions and Governance

1.2 History of Co-Management

1.3. Benefits in Co-Management

1.4. Principles and Core Values of of Co-Management

1.5. Cross Cutting Issues in Co-Management

1. **EXPLORING THE POTENTIALS FOR CO-MANAGEMENT**

2.1. Reviewing Social and Ecological Trends and Issues

2.2. Stakeholder Analysis: Leadership Structures, Organizations and Institutions

2.3. Policy and Legal Framework Analysis

2.4. Matching Management Arrangements and Institutions with Context

1. **ESTABLISHING A PREFERRED CO-MANAGEMENT SCENARIO**

3.1. Participatory Planning Processes and Methods

3.2. Stakeholder Engagement and Team Work

3.3. Steps in Establishing Co-Management

3.4. Adaptive Co-Management

1. **IMPLEMENTING CO-MANAGEMENT**

4.1. Monitoring and Evaluation

4.2. Case Studies from Other Countries

4.3. Case Studies from Bangladesh