

No	Subject	Study Materials
1	Natural Resources and Environmental Management	<ul style="list-style-type: none"> - Resources, Development, and Environment; - Concept of Sustainable Development. - Limit to Growth concept, - Concept of Climate Change; - Concept of Ethics in Natural Resource Utilization, - Principles of Values in Natural Resource and Environmental Utilization, - Environmental Quality Index: Index structure of the environment, Air pollution index, Water pollution index. - Environmental Quality Index: Quality of life index & biological index, Land quality index, Aesthetics index, and Other environmental indexes. - Ecology of Environmental Pollution: Water pollution, Air pollution, Land pollution, Waste, and pollutants. - Environmental Protection: Quality factors in environmental protection, Environmental epidemiology, Waste & environmental disturbances, and waste management, - Concept of Restorative Natural Resource Management (Water, land, forest) - Concept of Restorative Natural Resource Economics: Fisheries - Concept of Non-Restorative Natural Resource Economics: Mining - Development of Natural Resource and Environmental Management Programs: Planning techniques and methods, Environmental impact assessment, Environmental management plan, and environmental management implementation plan
2	Principles and Inventory Techniques of Natural Resources and Environment	<ul style="list-style-type: none"> - Definition of Natural Resources Inventory - Approach to Implementing Natural Resources and Environmental Inventory - Recommended Components of Natural Resources Inventory and Recommended Data - Geology and Soil, Water Resources, Habitat and Wildlife: <ul style="list-style-type: none"> ▪ Forests ▪ Grasslands and shrublands ▪ Endangered Plant and Animal Species and Significant Natural Communities ▪ Cultural Resources ▪ Land Use - Forest Inventory - Forest Management Planning - Forest Management Plan Reporting - Vegetation and Ecosystem Analysis

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3	Regional Planning and Spatial Planning	<ul style="list-style-type: none"> - Basic concepts of regional and spatial planning - Regional planning and spatial planning issues and problems - Theory and practice of regional growth and development - Rostow's growth model and phenomena due to regional growth - Regional planning approach and concept of spatial planning and operational stages of spatial planning - Completeness, validity, update ability of data and information - Relevant methods and analysis and provincial spatial utilization strategies in accordance with the Compilation Manual - Case study and project study of spatial and regional planning in several places in NTT
4	Biodiversity	<ul style="list-style-type: none"> - Definition of Biodiversity - Benefits of Biodiversity - Status of Biodiversity - Biodiversity Crisis in Indonesia - Aligning Biodiversity Conservation and Development - Conservation, Values, and Management of Biodiversity - Coastal and Marine Ecosystems - Marine Biodiversity - Measuring Biodiversity Index and Developing Profiles and Master Plans for Biodiversity Management
5	Environmental Planning and Management	<ul style="list-style-type: none"> - Concept of Environmental Planning and Current Global Environmental Conditions - Concept of Sustainable Development - Environmental Management and Protection Plan (RPPLH) - Basic Concepts of Carrying Capacity and Strategic Environmental Assessment (KLHS) - Regional Planning of Indonesian Ecological Regions - Forest Degradation and Deforestation - Basic Concepts of Environmental Administration - Functions and Elements of Administration - Environmental Policy Reform - Environmental Administrative Documents - Environmental Issues and Policies - Environmental Budgeting - Environmental Leadership
6	Coastal and Small Islands Management	<ul style="list-style-type: none"> - Introduction and Scope of Coastal and Small Islands Areas and Their Importance

No	Subject	Study Materials
		<ul style="list-style-type: none"> - Characteristics and Typology of Coastal and Small Islands Ecosystems - The potential of Coastal and Small Islands Ecosystems - Empowerment of Coastal and Small Islands Communities - Policy for Coastal and Small Islands Management - Economic Valuation of Coastal and Marine Resources - Fisheries Carrying Capacity in Coastal and Small Islands Areas - Spatial Planning and Arrangement of Coastal and Small Islands Areas in NTT (East Nusa Tenggara)