



L	T	P/S	SW/F W	TOTAL CREDIT UNITS
2	-	2	-	3

Course Title: Green Resources Economics

Credit Units: 03

Course Code: ECON623

Course Objectives: To develop understanding of students about resource and forest economics, management decisions, natural and environmental resource accounting.

Pre-requisites: Student should have understanding of basics of Forestry and Economics

Course Contents/Syllabus:

	Weightage (%)
Module I Fundamental of Green Resource Economics	30
Meaning and Scope of Green resource Economics, Application of microeconomics in solving forest resource problems. Emphasis on forest products demand and supply analysis, forest products marketing, forest capital theory, and inter-regional and international trade in forest products.	
Module II Concepts of Valuation	
Impact of economics and physical variables upon forest appraisal and management decision. Valuation of non-market goods and economics of multiple-use, Ecosystem Analysis and Modeling.	30
Module III Planning and Analysis	20
Eco-development planning, Sustainability Analysis, SWOT Analysis, Case Studies.	
Module IV Management and research tools	20
Application of operations research tools in evaluating forest management alternatives in public and private forest planning. PES, economics of REDD+	

Student Learning Outcomes: Upon successful completion of the course Students will:

- **demonstrate** knowledge and develop understanding of basic principles and practices of economics applicable to the management of forest resources.
- **appraise** forest and management for Sustainability Analysis
- **Assess and select** various techniques for Eco development Planning.

Pedagogy for Course Delivery: The course is designed to be taught through the lecture and practical mode. However, during tutorial sessions group discussions and seminar presentations on various themes related to the course may be organized. Class room interaction will definitely have to be an integral part of the learning experience.

Lab/ Practicals details, if applicable:

List of Experiments:

- Exercises on estimation of demand and supply functions; biodiversity valuation, valuation of non-marketed forest products.
- Exercises on financial and economic appraisal of forestry projects.
- Exercises on marketing of forest products and international trade competitiveness.
- Computer applications for using programming techniques in evaluating forest management alternatives.

Assessment/ Examination Scheme:

Theory L/T (%)	Lab/Practical/Studio (%)	Total
66.6	33.4	100

Theory Assessment (L&T):

Continuous Assessment/Internal Assessment					End Term Examination
Components (Drop down)	Class Test	Home Assignment	Presentation	Attendance	
Weightage (%)	10	05	10	05	70

Lab/ Practical/ Studio Assessment: Not Applicable

	Continuous Assessment/Internal Assessment				End Term Examination		
Components (Drop down)	Class Test (Practical Based)	Attendance	Mid Term Viva	Major Lab Exercises	Minor	Practical Record	Viva
Weightage (%)	15	05	10	35	15	10	10

Text:

- FAO 1986. *Guidelines to Practical Project Appraisal*. Natraj Pub.
- Kerr JM, Marothia DK, Singh K, Ramaswamy C and Beritley WR. 1997. *Natural Resource Economics : Theory and Applications in India*. Oxford & IBH.
- Nautiyal JC. 1988. *Forest Economics – Principles and Applications*. Natraj Publications, Dehra Dun.
- Sharma LC. 1980. *Forest Economics, Planning and Management*. International Book Distributors, Dehra Dun.