

**INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI**  
**PROFORMA FOR NEW COURSE**

1.	Title of the Course	Environmental and Resource Economics
2.	Course Number	HS3020
3.	Status of the Course	Elective Course
4.	Structure of Credits	3-0-0-3
5.	Offered to	B. Tech
6.	New Course/ Modification to	New course
7.	To be offered by	Dr. Chandra Sekhar Bahinipati
8.	To take effect from	January 2018
9.	Prerequisite	Nil
10.	Whether approved by the Program	Yes
11.	Course Objective:	This course introduces basic topics in environmental and natural resource economics. It enables the students to understand the application of economic theory to the environmental issues and management of natural resources.
12.	Course Content:	Introduction: Economy-environment interaction; market failure; property right; common property resource; public goods; differences between environmental, ecological and resource economics Environment vs. Development: Relation between development and environmental stress; Environmental Kuznet's curve hypothesis; concepts of sustainable development Economics of Exhaustible and Renewable Resources; Environmental Policy and Global Environmental Issues – The environmental issues and policies in India, trans-boundary pollution; economics of global warming; impact of trade on environment and environment on trade
13.	Text Books:	1. Kolstad, C. <i>Intermediate Environmental Economics</i> . Oxford University Press, 2012. 2. Hanley, N., J.F. Shogren and B. White. <i>Environmental Economics: In Theory and Practice</i> . Oxford University Press, 2006.
14.	References:	1. Tietenberg, T. and L. Lewis, <i>Environmental and Natural Resource Economics</i> . Pearson, 2010. 2. Kolstad, C. <i>Environmental Economics</i> . Oxford University Press, 2000. 3. Dasgupta, P.S. and G.M. Heal, <i>Economic Theory and Exhaustible Resources</i> . University Press (Selected Chapters), 1979. 4. Perman, R. Y Ma, M. Common, D. Maddison, and J. Mcgilvray. <i>Natural Resources and Environmental Economics</i> . Pearson Education Limited, 2011.