|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Topic** | **References From****Recommended Text****Books** | **Tentative Time Schedule** | **Internal Assessment** |
| 1. | Unit-1 . IntroductionWhat is environmental economics; review of micro economics and welfare economics | Chapter 1: Skip Section III. Chapter 2 Chapter 3: Do Sections I, II, III (skip section III.B pp. 47-52) and IV. Chapter 4Don Fullerton and Robert Stavins (1998). “How Economists See the Environment.” Nature, Vol. 395, Oct 1, 1998, pp. 433-434. | Jan 1st week-3rd week | 10 Marks class test ( Tentative time) 27th Jan 202110 Marks class test( Tentative time)          **5 Marks for Attendance** More than 67% but less than 70% - 1Mark         70 % or more but less than 75% - 2 Marks 75% or more but less than 80% - 3 Marks      80% or more but less than 85% - 4 Marks       85% and above - 5 Marks |
| 2. | Unit-2 The Theory of Externalities : Pareto optimality and market failure in the presence of externalities; property rights and the Coase theorem.  | Chapter 5: Skip Section V (Pricing Public Goods and Bads) Chapter 13: Do Section I only (Coase and the Assignment of Property Rights) | Jan 4th week  |
| 3. | Unit-3 The Design and Implementation of Environmental Policy : Overview; Pigouvian taxes and effluent fees; tradable permits; choice between taxes and quotas under uncertainty; implementation of environmental policy. | Chapter 11: Skip Sections II and VI Chapter 12: Do all sections Chapter 13: Do Sections II.A and II.B Chapter 14 Chapter 15: Do Sections I and II (two typos on p. 303 – check with instructor)Schmalensee, Richard and Robert N. Stavins (2017). “The design of environmental markets: What have we learned from experience with cap and trade?” Oxford Review of Economic Policy, Vol. 33, No. 4, pp. 572-588. Blackman, Allen, Li, Z., and Liu, A. A. (2018). “Efficacy of command-and-control and market-based environmental regulation in developing countries,” Annual Review of Resource Economics, Vol. 10, pp. 381-404. | Feb 1st week -Mar 1st week |
| 4. | Unit-4 International Environmental Problems : Trans-boundary environmental problems; economics of climate change; trade and environment. | Jonathan Harris and Brian Roach (2018). Environmental and Natural Resource Economics: A Contemporary Approach, Routledge. Chapters 12, 13. | Mar 2nd week-3rd week |
| 5. | Unit-5 Measuring the Benefits of Environmental Improvements (approx. 14 lectures): Nonmarket values and measurement methods; risk assessment and perception.Unit-6 Sustainable Development (1 lecture): Concepts; measurement | Chapter 7: Skip Section VI (Discrete Choice). Do all other sections. Chapter 8: Do p. 147 and Section IV (skip section IV.E). Chapter 10.Geoffrey Heal (2012). “Reflections—Defining and Measuring Sustainability” Review of Environmental Economics and Policy Vol. 6, No. 1 (winter 2012), p. 147–163. | Mar 22-31(5 lectures) excluding mid- sem breakApirl 1st week -2nd week |  |
| **READINGS LIST*** All chapters below refer to Kolstad (2012). Entire chapter has to be covered except where sections to be skipped are specifically mentioned.
* Overview of environmental problems in India [required] Three Year Action Agenda (NITI Aayog, April 2017): Chapter 23 (Environment and Forests)
* Economic Survey 2017-18 Volume 2, Chapter 5 p. 77-78 (Air Pollution in Delhi).
* State of Environment Report: India 2009 (Ministry of Environment and Forests, Government of India, 2009): Chapter 2 (State and Trends of the Environment): Land. Air, Water, Biodiversity (p. 9 to 71).
* Useful source of environmental statistics: http://www.indiaenvironmentportal.org.in/content/453907/envistats-india-2018/ http://www.indiaenvironmentportal.org.in/content/462580/envistats-india-2019-volienvironment-statistics/
 |
| **Internal Assessment and Final Exam** |  |
| The  University  end  of  semester  exam  will  be  worth  75  marks  which  may be physical mode / online. The internal Assessment would be a total of 25 which would comprise 5 marks for attendance and 20 marks for two class tests of 10 marks each or 1 project work in lieu of one class test.  |