

# MODUL HANDBOOK ENVIRONMENTAL ECONOMICS AND NATURAL RESOURCES



MASTER PROGRAM OF ENVIRONMENTAL SCIENCE  
SCHOOL OF POSTGRADUATE STUDIES  
DIPONEGORO UNIVERSITY

**Module Description:**

Module designation	Environmental Economics and Natural Resources
Semester(s) in which the module is taught	1 <sup>st</sup> semester
Person responsible for the module	Prof. Dra. Indah Susilowati, MSc., Ph.D Dr. Purnawan Adi Wicaksono, S.T., M.T Dr. Eng. Maryono, S.T., M.T.
Language	Indonesian and English
Relation to curriculum	Compulsory
Teaching methods	Mix Method or Blended Learning by incorporating Lecture based-learning, Individual learning and High Technological learning <ul style="list-style-type: none"><li>• Lecture based learning: teacher lead a lesson by using presenting on, showing visual</li><li>• Student Centred-learning: teacher promote individual learning so that student can exploring individual idea</li><li>• High technological learning, teacher leads to use high technology in information such as by exploring, utilizing internet/searching engine and social media.</li></ul>
Workload (incl. contact hours, self-study hours)	<ul style="list-style-type: none"><li>• Lecture, 3 hours per week</li><li>• Discussion and presentation (Q&amp;A), 1,5 hours per week</li><li>• Individual assignment, 5 hours per week</li><li>• Total workload for semester = 150 hours</li></ul>
Credit points	3 Credits / 6 ECTS
Required and recommended prerequisites for joining the module	No required prerequisite
Module objectives/intended learning outcomes	<ul style="list-style-type: none"><li>• Able to formulate environmental management theory especially by using economic theory approach</li><li>• Able to formulate environmental management policies, especially for increasing economic and natural resources utility</li><li>• Able to formulate rules, methods of environmental management to improve the quality of life, especially by improving the economic equity and development green natural resources</li></ul>

Content	This course discusses the concepts and understanding of the management and utilization of natural resources. Discusses the principles of optimizing the use and management of natural resources as well as regulatory policies and some static techniques of natural resource analysis. The concept and understanding of economic value and the influence of natural resource management on welfare.
Examination forms	<ul style="list-style-type: none"> <li>• Open book or closed book</li> <li>• Assays,</li> <li>• Individual and group task</li> </ul>
Study and examination requirements	Lecture attendance at least 75%.
Reading list	<ol style="list-style-type: none"> <li>1. Tietenberg, T. and Lewis, Lynne. 2019. Environmental Economics: What Matters. Routledge.</li> <li>2. EIK's daughter, Nuva. 2014. Environmental Economics. IPB Press. Bogor</li> <li>3. Kolstad, CD 2012. Environmental Economics. University of Oxford Press; 2nd edition.</li> <li>4. Smith, Stephen. 2011. Environmental Economics: A Very Brief Introduction. University of Oxford Press; first edition.</li> <li>5. Fauzi, Akhmad 2010. Natural Resource Economics. and Environment. Gramedia Main Library. Forestman and Company, Boston.</li> <li>6. Hawkins, Paul. 2010. Revised Edition of Trade Ecology: The Declaration of Sustainability (Collins Business Essentials). Harper's Business.</li> <li>7. Fauzi A. (2005). Historical Perspectives in Economic Valuation. Economic Valuation Training Materials.</li> <li>8. Grafton, RQ; etc. 2004. Environmental Economics and Natural Resources. Blackwell Publishing.UK</li> <li>9. Hanley, N., J. F, Shogren, and B. White. 2002. Environmental Economics in Theory and Practice. Palgrave MacMillan, New York.</li> <li>10. Van den Bergh, J. C. (Ed.). (2002). Handbook of environmental and resource economics. Edward Elgar Publishing.</li> </ol>