



University Gadjah Mada

Faculty of Forestry

Study Program of Doctor in Forestry Science

Module Handbook

Name (Code)	: The Philosophy of Forestry Science (KTDU22801)						
ECTS Type Status	: 7.5 Class lecture Compulsory						
Semester OfL:OnL Ratio LMS	: 1 60:40 elok.ugm.ac.id						
Pre-Requisite	: -						
Description of content	: This course discusses the philosophy of forestry science which includes the philosophy of science applied in the development of science and forestry research, starting from the understanding of philosophy, philosophical classification, philosophical thinking, scientific philosophy, presuppositions in the philosophy of science, psychological energy in the philosophy of science, the nature of forestry research, the truth in science, ontology, epistemology and axiology, the development of forestry science related to Indonesian forest management. Changing the paradigm of Indonesian forestry science by involving all stakeholders in the science of forest management, environmental sustainability, climate change, social and benefits for human welfare						
Course Outcomes and PLO mandated	Finishing this course, student will be able to review the philosophy of science for the development of forestry science and research (CLO1/PLO1), to apply the philosophy of science in world and Indonesian forestry sciences (CLO2/PLO1), to study the historical philosophy of Indonesian forest management and the parameters of the development of forestry science (CLO3/PLO3), and to think critically about the development of forest management philosophy (CLO4/PLO3)						
Lecturer(s)	<ol style="list-style-type: none"> 1. Prof. Dr. Ir. San Afri Awang 2. Prof. Dr. Ir. T.A. Prayitno, M.Agr.Sc 3. Prof. Dr. Ir. Suryo Hardiwinoto, M.Agr.Sc 4. Prof. Dr. Satyawan Pudyatmoko, S.Hut., M.Sc 						
Workload	: Total workload per semester is for 14 weeks, with weekly activities: 2*(50' lectures, 60' structured activities, 60' independent study), and 2 mid exam and final exam weeks.						
Learning Method	: Class Lecture and Discussion						
Student Learning Experience	: Actively discuss the class material and research cases, structured assignment, group work, quiz, material reflection, review of literature and problem in forestry sectors						
Mapping CO-syllabus	CLO	Syllabus	Learning form	Meetings			
	1	<ol style="list-style-type: none"> 1. Philosophy, Forestry Science 2. Philosophy Classification 3. Prepositions in the philosophy of science 	Class lecture, discussion, assignment	3			
	2	<ol style="list-style-type: none"> 4. Psychological energy in the philosophy of science 5. Truth in the philosophy of science 6. Ontology, epistemology and axiology of forestry science 7. The essence of forestry research 	Class lecture, discussion, assignment	4			
	3	<ol style="list-style-type: none"> 11. The Philosophical Tree: History of Indonesian forestry 12. Forestry Philosophy, Development of Forestry science 13. Parameters of multi-function forest sustainability 	Class lecture, discussion, presentation	3			
	4	<ol style="list-style-type: none"> 14. Forest management ecosystem paradigm 15. Forest management social paradigm 16. Forest management climate change paradigm 17. The production paradigm of forest management 	Class lecture, discussion, presentation	4			
Assessment method	Base of Evaluation	Component of Evaluation	CLO1	CLO2	CLO3	CLO4	Total (%)
	Participative activity	Assignment, quiz	√	√	√	√	40
	Cognitive & Psychomotoric	Mid exam	√	√			30
	Case Study result	Final exam and presentation			√	√	30
References	<ol style="list-style-type: none"> 1. CIFOR.2009. Integrating Climate Change into Forestry. 2. Erickson, GW. 1998. The Philosophy of Forestry. UFRN. Principles V: 95-114 3. Ladyman, J. 2002. Understanding Philosophy of Science. Routledge, New York. 4. Palmquist, S. 2000. The Tree of Philosophy. Philopsychy Press, Hong Kong. Translated by Shodiq, M. (2001). 5. Rachmat, A. 2015. The Philosophy of Advanced Sciences. Prenadamedia, Jakarta. 						

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| | <ol style="list-style-type: none">6. Thlana, DM, BC. Falemara, MA. Ameh, and OF. Osasebor 2012. Mitigating Climate Change Effects Using Eco-Friendly Wood Preservatives. <i>Journal of Natural Sciences Research</i> 2 (2): 2012 297. Wiersum, KF. 1999. <i>Social Forestry: Changing Perspectives in Forestry Science or Practice</i>. Agricultural University, the Netherlands8. Ghali, ELQ. 2011. <i>The Effects of Climate Change on Forest Industry and Environment: Finland and Morocco</i> Faculty of Technology, Saimaa University of Applied Sciences, Imatra |
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