


MODULE HANDBOOK

	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE D10D- 60205
Module designation	Rural Ecology	
Semester(s) in which the module is taught	6	
Lecturers	1. Prof. Johan Iskandar, M.Sc., Ph.D 2. Dr. Eneng Nunuz Rohmatullayaly, M.Si	
Medium of instruction	Indonesian	
Relation to curriculum	Elective course	
Teaching methods	Lectures, discussions, cooperative learning, , Project-based Learning, and inquiry learning	
Workload	Total workload : 5440 minutes = 90.67 hours Lectures, discussions, cooperative learning, and inquiry learning : 2 x 50 minutes x 16 weeks = 1600 minutes = 26.67 hours Exercises : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours Self-study : 2 x 60 minutes x 16 weeks = 1920 minutes = 32 hours	
Credit points	2,00 (3,62 ECTS)	
Required and recommended prerequisites for joining the module	General Ecology	
Module objectives/intended learning outcomes	1. Explain the definition and concept of rural ecology (the interrelationship between villagers and their environment). 2. Explain the theory/concept of mutual interaction between villagers and their environment. 3. Explain the examples of mutual interaction between villagers and their environment. 4. Use knowledge of rural ecology as one of the concepts in analyzing and planning for sustainable rural resource management. 5. Explain examples of rural ecology studies that support Sustainable Development Goals (SDGs) 5.	
Contents	1. Basic concepts and rural development 2. Characteristics of rural populations and their environment 3. Sustainable development and rural ecology 4. Field ecology/shifting cultivation 5. Rice field ecology 6. Talun garden ecology and monoculture 7. Yard ecology 8. Traditional agroforestry in the world's population 9. Utilization of biological potential for community welfare 10. Application of Rural Ecology in SDGs	
Examination forms	Quiz, midterm exam, assignment, and final exam	
Study and examination requirements	The minimum attendance in lectures is 80%. Final grades are evaluated based on quiz (10%), midterm exam (15%), assignment (10%), final exam (15%), project and participation (50%)	
Reading lists	1. Berkes F. 2012. Sacred Ecology. Third Edition. New York and London: Routledge. 2. Boserup E. 1965. The Condition of Agricultural Growth. London: George Allen & Unwin 3. Conway GR & Barbier EW. 1990. After the Green Revolution: Sustainable Agriculture For Development. London: Earthscan Publication Ltd. 4. Reijntjes CR, Haverkort B, Waters-Bayer A. 1992. Farming for the Future: An Introduction to Low-External-Input and Sustainable Agriculture. London and Basingstoke: The MacMillan Press Ltd. 5. Hardjono J. 1987. Land, Labour and Livelihood in A West Java Village. Yogyakarta: Gadjahmada University Press. 6. English JT (ed). 1993. Traditional Ecological Knowledge: Concept and Cases. IDRC, Ottawa. 7. Aronson, J. (Ed.). (2016). <i>Conservation in rural landscapes: A perspective from the global South</i> . Wiley-Blackwell. Hoboken 8. Pires, D. C. A. (2023). <i>Rural socio-environmental systems</i> . Springer.	

7. Iskandar J dan Iskandar BS. 2011. Agroekosistem Orang Sunda. Bandung: PT Kiblat Buku Utama.
8. Iskandar J. 2012. Ekologi Perladangan Orang Baduy: Pengelolaan Hutan Berbasis Adat Secara Berkelanjutan. Bandung: Penerbit PT Alumni.
9. Iskandar, J. 2017. Ekologi Manusia dan Pembangunan Berkelanjutan. Edisi Revisi. Bandung: PSMIL, Unpad.
10. Johnson AL & Earle T. 1987. The Evolution of Human Societies: From Foraging Group to Agrarian State. Stanford, California: Stanford University Press.
11. Marten, GD. 2001. Human ecology: basic concepts for sustainable development. London: Earthscan Publications Ltd.
12. Pauly D, Christensen V, Guenette S, Pitcher TJ, Sumaila UR, Walters CJ, Zeller D. 2002. Towards Sustainability in World Fisheries. Nature 48:689-695.
13. Rambo AT, Sajise PE (eds). 1984. An Introduction to Human Ecology Research on Agricultural Systems in Southeast Asia. Honolulu: East- West Environment and Policy Institute.
14. Suparlan P. 2005. Kebudayaan dan Pembangunan. Dalam Rudito B dkk (eds), Sustainable Future. Jakarta: ICSD, pp.113-136.
15. Winarto YT (eds). 2016. Krisis Pangan dan "Sesat Pikir": Mengapa Masih Berlanjut?. Jakarta: Yayasan Obor Indonesia.