

Biogeography

Module name		<i>Biogeography</i>					
Module level		4 th year of Bachelor program					
Abbreviation, if applicable		-					
Sub-heading, if applicable		-					
Courses included in the module, if applicable		BI4211 Biogeography					
Semester/term		8 th Semester					
Module coordinator(s)		Prof. Dr. Djoko T. Iskandar					
Lecturer(s)		Prof. Dr. Djoko T. Iskandar					
Language		Indonesian					
Classification within the Curriculum		Elective courses for Bachelor Program in Biology					
Teaching format/ class hours per week during the semester		Lecture (face to face teaching): 2 x 1 hour x 12 weeks Assignment: Student class presentation/group: 2 hours x 2 weeks Quizzes: 15 minutes x 8 weeks					
Workload	Total Workload	96 hours; 2 CU					
		Face to face teaching	Structured Activities	Independent study	Exam	Total	
	Lecture	28	32	32	4	96	
Credit points		<i>Biogeography (2 Credits)</i>					
Requirements		-					
Content		<p>Biogeography explores the comprehension about continental plate movement and its impact to organism. This concept explores biogeography concept (including genetics, systematic and ecology) as well as measuring its function and environmental education potential of biodiversity and conservation of Indonesian biodiversity. Concentrated to Indonesian biogeography as the most unique process on earth compared to any other regions in the world.</p> <p>Topics include:</p> <ol style="list-style-type: none"> 1. Science and History of Biogeography; 2. The Geographic Template: Visualization and Analysis of Biogeography Patterns; 3. Distributions of Species: Ecological Foundations; 4. Dispersal and Immigration; 5. Speciation and Extinction; 6. The Changing Earth; 7. Glaciation and Biogeographic Dynamics of the Pleistocene; 8. The Geography of Diversification; 9. Reconstructing the History of Lineages and Biotas; 10. Island Biogeography; 11. Patterns in Species Richness. 12. Assembly and Evolution of Insular Communities; 13. Ecological Geography of Continental and Oceanic Biotas; 14. Conservation Biogeography and the Dynamic Geography of Humanity 					
Learning goals/competencies		<p>Students are able</p> <ul style="list-style-type: none"> - to analyze biosystematic for conservation issue - to find information about evolution, tectonic plate and molecular ecology - define biogeography terminology - to identify major factor which control organism distribution - understand community pattern and biome in world to measure future thread to the species 					
Study/exam achievements		Mid Term Exam	Final Exam	Assignment I	Assignment II	Attendance	Total
		30%	40%	15%	15%	10%	100%
Forms of media		Classical teaching tools:		White board, power point presentation			
		Digital teaching tools:		Video/CD, Website			

Literature	<ol style="list-style-type: none"> 1. Cox, BC & PD Moore. 2010. Biogeography an ecological and Evolutionary Approach. 8th Ed. John Wiley & Sons, New York ISBN 978-0-470-63794-4. 2. MacDonald, G. 2003. Biogeography: Introduction to Space, Time, and Life. 3rd Ed. John Wiley & Sons, New York 3. Lomolino , MV BR Riddle , RJ Whittaker, JH Brown. 2006. Ed.Sinauer Assoc. Inc ISBN 0-87893-062-0 4. The earth through time. 8th Ed. John Wiley & Sons, New York. ISBN 13-978-0471-69743-3; 10-471-69743-5. 5. Morrone, JJ. 2009. Evolutionary Biogeography: An integrative Approach with case Studies. 1st Ed. Columbia Univ. Press. ISBN 978-0-231-14378-3; 978-0-231-51-283-1 6. Wilson, E.O. 2002. Diversity of Life. 2nd Ed. W.W. Norton Co. ISBN 0393319407, 9780393319408 7. Flannery, T. 2006. The Weather Makers: How man is changing the climate and what it means for life on earth. 2nd Ed. Groves Press & Harvard University Press, New York. 8. Gavin, D.G. 2012. Biogeography. Pages 77-87 in 21st Century Geography, A Reference Handbook. Edited by J.P. Stoltman. Sage. 9. Gaston, K.J. 2003. The structure and dynamics of geographic ranges. Oxford University Press. ISBN 0-19-852641-5. 10. Judson, O. 2010. Divide and diminish. New York Times. http://opinionator.blogs.nytimes.com/2010/03/16/divide-and-diminish/?hp. 11. Flannery, T. 2001. The Eternal Frontier. Grove Press . ISBN0-8021-3888-8. 12. Evolution 101. http://evolution.berkeley.edu/evolibrary/article/evo_01 13. Tower of Time. http://portal.chronos.org/gridsphere/gridsphere/
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