## STUDY OF BIOLOGY CURRICULUM LESSON PLAN



## MINISTRY OF EDUCATION AND CULTURE MULAWARMAN UNIVERSITY FACULTY OF TEACHER TRAINING AND EDUCATION BIOLOGY EDUCATION STUDY PROGRAM

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Case	18

		1	LESSON	PLAN					
Subje	ect	Course Code	Clusters	of Courses	Weight (credit)	Sem	ester	Date Compilation	
EVOLUT	ΓΙΟΝ	19050162W028	N	IKPS	2 credits		4	March 8, 2020	
Authoriz	zation	Course Coord	linator	Team T	<b>Seaching Cour</b>	Coordinator Study Program			
		Dr. Hj. Herlian		<ol> <li>Dr. Hj. Herliani, M.Pd</li> <li>Ruqoyyah Nasution, S.Pd., M.Pd.</li> </ol>			Dr. Hj. Herliani, M.Pd		
<b>Learning Outcomes</b>	Progr	am Learning Outo	comes Of U	Indergraduate	On Biology E	Education	Study Pro	gram	

	Attitude Knowledge	S2: Collaborate and take responsibility for work in their fields of biology and learning P1: Able to master basic theories, concepts, principles and procedures in the scientific field of biology and the interaction of organisms with Tropical Rain Forest and its Environment
		Course Learning Outcomes
	2. Able to master the th	responsibility for his work in the field of evolution and learning teory, concepts, principles and basic procedures in the field of evolution and interaction of mid tropical forest environment.
Integrated Principle Scientific Studies of Unmul	herbal plants, and of diseases typical of tr  Biodiversity of pl  Types or types of	TY: contains various types of plants in tropical forest areas as timber, food and fruit plants, others that have the potential to be developed. Can be added with various pests and plant opical rain forests.  ants in tropical rain forest areas plants in the tropical rain forest and their characteristics arious kinds and types of plants in tropical rain forest areas
	water, or salt water a animals typical of tro  Biodiversity of ar  Types of animals  The benefits of the	ITY: contains various kinds of animals in tropical forest areas, whether they live on land, fresh and have the potential to be developed. Can be added with various pests and diseases in opical rain forests.  Inimals in tropical rain forest areas, in the tropical rain forest and their characteristics the kinds and types of animals in the tropical rain forest, diseases of animals in tropical rain forest areas.

Course Description	development towards modern humans, evolution of primbiology, humans and technology, natural selection, dir	the views of experts on evolution, human potential in evolution, lates, the relationship between cultural evolution and evolution of ection of evolution, gene pool, factors factors affecting genetic anisms and the process of the occurrence of new species, intrinsic							
Reference	<ol> <li>Allan C, Wilson and Rebecca L. Canna, 1997. Where</li> <li>Debzhanky. Thedosius, 1979. Evolution, Genetics and</li> <li>Douglas C. Wallace, 1997. Mitochondrial DNA in Aga</li> <li>Koenrjoroningrat, 1976. Pengantar Antropologi. Aksa</li> <li>Widodo, 1992. Teori Evolusi Biologis. Depdiknas, IK</li> </ol>	Man. Jhon Willey & Sons, New York.  Ing and Disease, Sientific American.  Ira Baru, Jakarta.							
Instructional Media	Software:	Hardware:							
	Powerpoint, MOLS, Video, e-learning, Journal, Paper Focus Projector, Laptop, Android, Television								
Prerequisite Course (if any)									

Weeks	Sub-CLO	Indicator	Study Material	Learning Strategies	Student Learning Experience		Evaluation		Refere nce	
				Strategies	Experience	Туре	Criteria	Weight (%)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
1	Students are able to explain the meaning of evolution and describe some facts about the existence of evolution	Definition of Evolution	Lecture Contract and Definition of Evolution	Model STAD  Method Discussion, question and answer, lecture, assignment	Receive an explanation about RPS  1. Analyze the material in outline 2. Giving group assignments 3. Literacy of materials from various sources about the material being studied	Assessme nt process which includes assessme nt of attitudes, skills and knowledg e Written Assessme	Assessment indicators:  • Communic ation skills in making presentations  • activity  • Discipline	7%	1,2,3,5	

					independently Conduct discussions and ask questions about the material being discussed Carry out presentations, discussions and questions and answers Write down the results of the discussion and draw conclusions from the results of the discussion Receive an explanation of assignments to compile papers and compile study	nt			
2	Students are able to describe the views of experts on evolution	The Expert's View on Evolution	The Expert's View on Evolution	1. 2. 3.	journals Define the problem (so the problem is clear and structured facilitate students to prepare for investigations, Providing direction for and during the conduct of the investigation	Assessmen t process which includes assessment of attitudes, skills and knowledge Written Assessmen t	Assessment indicators:  Communic ation skills in making presentations activity Discipline	7%	1,3, ,5

3	Students are able to Explain: Human Potential in Evolution	Explaining: Human Potential in Evolution	Human Potential in Evolution	Model CBL	1. 2. 3.	Define the problem (so the problem is clear and structured facilitate students to prepare for investigations, Providing direction for and during the conduct of the investigation	Assessmen t process which includes assessment of attitudes, skills and knowledge Written Assessmen t	Assessment indicators:  • Communic ation skills in making presentations  • activity  • Discipline	8%	1,2,3,5
4	Students are able to explain the development towards modern humans	Explaining the Development Towards Modern Man	Development Towards Modern Man	Model CBL	<ol> <li>2.</li> <li>3.</li> </ol>	Define the problem (so the problem is clear and structured facilitate students to prepare for investigations, Providing direction for and during the conduct of the investigation	Assessmen t process which includes assessment of attitudes, skills and knowledge  Written Assessmen t	Assessment indicators:  Communic ation skills in making presentations activity Discipline	8%	1,2,3
5	Students are able to Explain Primate Evolution	Explaining Primate Evolution	Primate Evolution	Model CBL	<ol> <li>2.</li> <li>3.</li> </ol>	Define the problem (so the problem is clear and structured facilitate students to prepare for investigations, Providing direction for and during the conduct of the	Assessmen t process which includes assessment of attitudes, skills and knowledge	Assessment indicators:  Communic ation skills in making presentations activity Discipline	7%	1,2,4

						investigation	Written Assessmen t			
6	Students are able to explain the relationship between cultural evolution and biological evolution	Explaining the Relationship between Cultural Evolution and Biological Evolution	The link between cultural evolution and biological evolution	Model PBL	1. 2. 3. 4. 5.	Identify unstructured authentic problems (Ill structured problems) Selection of solutions from the existing alternative solutions Carrying out individual and group investigations to solve problems Development and presentation of works Authentic post- troubleshooting reflection	Assessmen t process which includes assessment of attitudes, skills and knowledge Written Assessmen t	Assessment indicators:  • Communic ation skills in making presentations  • activity  • Discipline	9%	3.4
7	Students are able to analyze the process of anabolism in the metabolism of living things	Explaining Humans and Technology	Humans And Technology	Model TTW  Method discussion Lecture Questions and answers, assignments	<b>Thi</b> 1.	Looking for material from various sources about the material being studied independently, namely the concept of life and compiling it in the form of a paper	Assessmen t process which includes assessment of attitudes, skills and knowledge	Assessment indicators:  • Communic ation skills in making presentations  • activity  • Discipline	10%	1.4

					3. W	classmates the search results (presenting a paper) Conduct discussions and ask questions about the material being discussed  Write Write down the results of the discussion Drawing conclusions from the discussion	Assessmen			
						meeting, namely writing a paper				
8	G 1 1 1 1 1	I n		Mid-Semester Exam			T .	T	# 0 <i>t</i>	1015
9	Students are able to Explain Natural Selection	Explaining Natural Selection	Natural selection	Model STAD  Method Discussion, question and answer, lecture, assignment	1. 2. 3.	Analyze the material in outline Giving group assignments Literacy of materials from various sources about the material being studied independently Conduct discussions and ask questions about the material being discussed	Assessmen t process which includes assessment of attitudes, skills and knowledge  Written Assessmen t	Assessment indicators:  Communic ation skills in making presentations activity Discipline	5%	1,3,4,5

					5. Carry out presentations, discussions and questions and answers 6. Write down the results of the discussion and draw conclusions from the results of the discussion 7. Receive an explanation of assignments to compile papers and compile study journals				
10	Students are able to explain the direction of evolution	Explaining the Direction of Evolution	Evolution Direction	Model TTW  Method discussion Lecture Questions and answers, assignments	Think  1. Looking for material from various sources about the material being studied independently, namely the concept of life and compiling it in the form of a paper  Talk  2. Presenting to classmates the search results (presenting a paper)  3. Conduct discussions and ask questions	Assessmen t process which includes assessment of attitudes, skills and knowledge Written Assessmen t	Assessment indicators:  Communic ation skills in making presentations activity Discipline	5%	1,4,5

11	Students are able to Explain Gene Pool	Explaining the Gene Pool	Gene Pool	Model CBL	about the material being discussed  Write  4. Write down the results of the discussion  5. Drawing conclusions from the discussion  1. Receive an explanation of the task of the next meeting, namely writing a paper  1. Define the problem (so the problem is clear and structured  2. facilitate students to prepare for investigations,  3. Providing direction for and during the conduct of the investigation	Assessmen t process which includes assessment of attitudes, skills and knowledge Written Assessmen	Assessment indicators:  • Communic ation skills in making presentations  • activity  • Discipline	7%	1,2,4,5
12	Students are able to explain the factors that affect genetic balance	Explaining the Factors Affecting Genetic Balance	Factors Affecting Genetic Balance	Model TTW  Method discussion Lecture Questions and answers,	Think  1. Looking for material from various sources about the material being studied independently, namely the concept of life and compiling	Assessmen t process which includes assessment of attitudes, skills and	Assessment indicators:  Communic ation skills in making presentations activity	7%	1,2,4,5

				assignments	it in the form of a paper  Talk  2. Presenting to classmates the search results (presenting a paper)  3. Conduct discussions and ask questions about the material	knowledge Written Assessmen t	Discipline		
					Write  4. Write down the results of the discussion  5. Drawing conclusions from the discussion  6. Receive an explanation of the task of the next meeting, namely writing a paper				
13	Students are able to explain genetic variation as the basis for evolution	Explaining Genetic Variation as the Basis of Evolution	Genetic Variation as the Basis of Evolution	Model PBL	1. Identify unstructured authentic problems (Ill structured problems)  6. Selection of solutions from the existing alternative solutions  7. Carrying out individual and group investigations to solve problems	Assessmen t process which includes assessment of attitudes, skills and knowledge	Assessment indicators:  • Communic ation skills in making presentations  • activity  • Discipline	5%	1,3,4,5

					8. 9.	Development and presentation of works Authentic post- troubleshooting reflection	Assessmen t			
14	Students are able to explain the mechanism and process of the occurrence of new species	Explaining the Mechanism and Process of New Species Occurrence	Mechanism and Process of New Species Occurrence	Model CBL	1. 2. 3.	Define the problem (so the problem is clear and structured facilitate students to prepare for investigations, Providing direction for and during the conduct of the investigation	Assessmen t process which includes assessment of attitudes, skills and knowledge  Written Assessmen t	Assessment indicators:      Communic ation skills in making presentations     activity     Discipline	7%	1,2,4,5
15	Students are able to explain Intrinsic Isolation and Other Isolation	Explaining Intrinsic and Other Insulation	Intrinsic and Other Insulation	Model CBL	1. 2. 3.	Define the problem (so the problem is clear and structured facilitate students to prepare for investigations, Providing direction for and during the conduct of the investigation	Assessmen t process which includes assessment of attitudes, skills and knowledge Written Assessmen t	Assessment indicators:  • Communic ation skills in making presentations  • activity  • Discipline	8%	1,2,3
16	Final Semester Exam (UAS)									

Knowing Coordinator Study Program Biology Education

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Samarinda, March 8, 2020

**Course Coordinator** 

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