BIOLOGY LEARNING STRATEGY LESSON PLAN



MINISTRY OF EDUCATION, CULTURE, RESEARCH, AND TECHNOLOGY MULAWARMAN UNIVERSITY FACULTY OF TEACHING AND EDUCATION SCIENCE BIOLOGICAL EDUCATION STUDY PROGRAM

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Sub	ject	Course Code	Clusters of Courses		Weight (credit)	Semester	date Compilation
Biology Learn	ning Strategy	19050163W032		e Offered 3 ly Program		4	March 4, 2020
Author	ization	Course Coord	inator	TI	EAM Teaching	Courses	Coordinator of Study Program
				1. Dr. Hj. Herliani, M.Pd 2. Dr. Vandalita, MM. Rambitan, MP 3. Dr. Elsye Theodora, M.Pd			1 pms
Learning Outcomes	Learning (Outcomes of Study I	4. Dr. Didimus Tanah Boleng, M.Kes Dr. Hj. Houtomes of Study Program Graduates (LO-Study Program) Charged on Course				
Zearining outcomes			Ü		`		
	Knowledge		-		, ,	_	Biology in the context
					and its Environ		
	General Skills		11.	_	•		ive thinking in making
							he field of biology and
					nt information a	and data	
		(Course Lea	rning Out	tcomes (CLO)		

	 Able to implement pedagogical science in field of learning process so that active, effective, efficient and meaningful learning occurs to achieve optimal learning outcomes which are part of the learning strategy including approaches to learning, learning models, learning methods, concept maps, and basic teaching skills in Tropical Rain Forests and their Environment Able to apply logical, critical, systematic, and innovative thinking in making strategic decisions by paying attention to and applying humanities values that are in accordance with the field of pedagogic science in learning process so that active, effective, efficient and meaningful learning occurs to achieve optimal learning outcomes which is part of the learning strategy based on relevant information and data
Integrated Principle	Dimension 2: Social and Cultural Entities
Scientific Studies of	2.1. INDIVIDUAL COMMUNITY GROUPS AND INTERACTIONS: human interaction with nature in tropical rain
Unmul	forest areas.
Course Description	This course examines and analyzes various way to organize the components of the learning process so that active, effective, efficient and meaningful learning occurs to achieve optimal learning outcomes. This course discusses: 1) Explanation of learning strategies: types of learning strategies, teaching and learning presentation techniques, the nature of learning strategies, implications of learning systems in education, 2) Introduction to learning and teaching, Creating a framework for learning; 3) Introduction of teachers in achieving the standard of the educational process; 4) The learning system in the standard of the education process; 5) Learning approach: Scientific approach: 6) <i>Contextual Teaching and Learning</i> (CTL); 7) a problem solving approach; 8) constructivism approach; 9) open-ended approach; 10) approach to science process skills; 11) learning models; 12) Teaching methods; 13) concept map; 14) Basic teaching skills.

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Learning Media	•										
	Software, Internet (google), PPT Labtop, Book, Paper, Module										
Pre Courseterms (if	-										
any)											

			a	Learning	~ .	Evaluation			
Weeks	Sub-CLO	Indicator	Study Material	Strategies (Models and Methods)	Student Learning Experience	Type	Criteria	Weight (%)	Referenc e
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Students are able to understand and apply the Lecture Contractinclude: a) Competency standards, basic competencies, and lecture indicators; b) The purpose of the lecture; c) Lecture techniques and assignments from learning strategies; d) Learning evaluation techniques. e) Explain the overall scope of the learning strategy material in outline; f.) Explaining the meaning of learning strategies from various educational expert opinions	1.Utilizing science and technology in understanding the scope of learning strategies, principles, and basic procedures in the field of biology and learning in schools. 2. Understanding learning strategies	1. The scope of learning strategies, principles, and basic procedures in the field of biology and its learning in schools 2. Understanding learning strategies	• Strategy: 1. Models: Direct learning (conventional) 2. Method: Lectures, Q&A, assignments 3. Lecturer submits lecture contract, course description 4. Explain the meaning of learning strategies	• Work independently and interact with other students of different ethnicities in discussions and questions and answers on the scope of learning strategies, principles, and basic procedures in the field of biology and learning at school and understand the meaning of learning strategies	Process assessment which includes: 1. attitude, 2. knowledge 3. skills 4. presence	■ Assessmen t criteria: PAP ■ Form of assessment : oral, written, portfolio	5	5,12,15,16
2	a. Able to master the types of learning strategies, teaching and learning presentation techniques, the	Explain the types of learning strategies, teaching and learning presentation	Biology learning strategies: 1. Types of learning strategies 2. Teaching and	• Strategy: 1. Models: STAD 2. Methods: lecture, discussion,	Work independently, and interact with other students discussing the types of learning strategies,	Process assessment which includes: 1. attitude, 2. knowledge 4. task	 Assessmen t criteria: PAP Form of assessment : oral, 	5	5,12,15,16

				Learning		F	Evaluation		
	a . a- a		Study	Strategies	Student	Туре	Criteria	Weight	Referenc
Weeks	Sub-CLO	Indicator	Material	(Models and	Learning			(%)	e
	C 1 :	. 1	, .	Methods)	Experience		•		
	nature of learning strategies, the implications of the learning system in the world of education to support biology learning in schools. b. Have a responsible attitude towards work in studying learning strategies independently;	techniques, the nature of learning strategies, the implications of the learning system in the world of education to support biology learning in schools		presentation, question and answer, 3. With the provision of understanding independently, and in groups	teaching and learning presentation techniques, the nature of learning strategies, the implications of the learning system in the world of education to support biology		written, portfolio		

				Learning		Evaluation Type Criteria W			
Weeks	Sub-CLO	Indicator	Study Material	Strategies (Models and Methods)	Student Learning Experience	Туре	Criteria	Weight (%)	Referenc e
3	a. Able to utilize science and technology in Mastering the theories, concepts, principles of teacher introduction in achieving standard educational processes to support biology learning in schools. b. Have independent motivation to always follow scientific developments regarding the standard of the	Explain introduction of teachers in achieving educational process standards	Introduction of teachers in achieving educational process standards: 1. Improving Teacher Professional Ability 2. Optimizing the Teacher's Role in the Learning Process	types of learning strategies, teaching and learning presentation techniques, the nature of learning strategies, the implications of the learning system in education to support biology learning in schools Strategy: 1. Models: STAD 2. Methods: lecture, discussion, presentation, question and answer, assignment. 3. With the provision of understanding independently, and in groups, mutually strengthen the	Working independently, and interacting with other students	Process assessment which includes: 1. attitude, 2. knowledge 3. skills 4. task	 Assessmen t criteria: PAP Form of assessment: oral, written, portfolio 	7.5	7.15

				Learning		Evaluation Type Criteria			
Weeks	Sub-CLO	Indicator	Study Material	Strategies (Models and Methods)	Student Learning Experience	Туре	Criteria	Weight (%)	Referenc e
	educational process to support continuous learning as the scientific basis for his profession. c. Demonstrate a responsible attitude towards work in studying the introduction of teachers in achieving the standards of the educational process independently;			understanding of the introduction of teachers in achieving the standard of the educational process 4. Students, under the guidance of lecturers, draw conclusions regarding the introduction of teachers in achieving the standard of the educational process					
4	understand in understand the learning system in	learning system in the standard educational process: a. System Definition and Use b.Factors Influencing the Learning System	The learning system in the standard of the educational process: a. System Definition and Use b.Factors Influencing the Learning System c. Components in the Learning System	Strategy: 1. Models: STAD 2. Methods: lecture, discussion, presentation, question and answer, assignment. 3. With the provision of understanding independently, and in groups,	Work independently and in groups and interact with other students about the learning system in the standard educational process: a. System Definition and Use b.Factors Influencing the Learning System c. Components in the Learning System	Process assessment which includes: 1. attitude, 2. knowledge 3. skills 4. task	 Assessmen t criteria: PAP Form of assessment: oral, written, portfolio 	7.5	7.15

				Learning		F	Evaluation		
Weeks	Sub-CLO	Indicator	Study Material	Strategies (Models and Methods)	Student Learning Experience	Туре	Criteria	Weight (%)	Referenc e
	standard of			mutually	Experience				
	education process in			strengthen					
	biology learning;			understanding of					
	c. Able to apply			the learning					
	logical, critical,			system in the					
	systematic, and			standard education					
	innovative thinking			process:					
	in the context of the			a. System					
	development or			Definition and					
	implementation of			Use					
	science and			b.Factors					
	technology that pays			Influencing the					
	attention to and			Learning					
	applies humanities			System					
	values in accordance			c. Components in					
	with the field of			the Learning					
	Biology Education			System					
	d. Able to be								
	responsible for the			4. Students, under					
	achievement of			the guidance of					
	group work results			lecturers, make					
	and supervise and			conclusions					
	evaluate the			regarding the					
	completion of work			learning system in					
	assigned to workers			the standard					
	under their			educational					
	responsibility;			process:					
				a. System					
				Definition and					
				Use					
				b.Factors					
				Influencing the					
				Learning					
				System					
				c. Components in					
				the Learning					

				Learning		Evaluation Type Criteria			
Weeks	Sub-CLO	Indicator	Study Material	Strategies (Models and Methods)	Student Learning Experience	Туре	Criteria	Weight (%)	Referenc e
5	a. Mastering the concept of a learning approach, a scientific approach to support biology learning in schools b. Able to demonstrate independent, quality, and measurable performance in determining the right learning approach in biology learning c. Have independent motivation to always follow scientific developments continuously as the basis for a scientific approach to his profession; d. Demonstrate a responsible attitude towards work in studying a scientific approach to learning as a scientific basis for his profession e. Able to be responsible for the achievement of group work results	Explain: a. Understandin g the learning approach b. Understandin g the scientific approach c. Steps of a scientific approach: observing, questioning, associating, experimentin g, networking	a. learning pastor definition b. Understandin g scientific approach c. Steps of a scientific approach: observing, questioning, associating, experimenting , networking	System Strategy: 1. Models: STAD 2. Methods: lecture, discussion, presentation, question and answer, assignment. 3. With the provision of understanding independently, and in groups, mutually strengthen understanding of learning approaches, scientific approaches 4. Students, under the guidance of lecturers, draw conclusions regarding the learning approach, scientific approach, scientific approach, scientific	and in groups and interact with other students discussing	Process assessment which includes: 1. attitude, 2. knowledge 3. skills 4. task	■ Assessmen t criteria: PAP ■ Form of assessment : oral, written, portfolio	10%	13.14

				Learning		Evaluation Type Criteria V			
Weeks	Sub-CLO	Indicator	Study Material	Strategies (Models and Methods)	Student Learning Experience	Туре	Criteria	Weight (%)	Referenc e
	and for the completion of the work assigned under his responsibility;								
6	a. Mastering the theory of Contextual Teaching and Learning (CTL) approach to support biology learning in schools. b. Able to demonstrate independent, quality, and measurable performance in understanding the Contextual Teaching and Learning (CTL) approach in biology learning c. Demonstrate a responsible attitude towards work in learning approaches Contextual Teaching and Learning (CTL) on learning as a scientific basis for the profession d. Able to be responsible for the achievement of the results of group	Explain: a. understanding of Contextual Teaching and Learning (CTL) approach b.Purpose Contextual Teaching and Learning (CTL) c. Learning strategy Contextual Teaching and Learning (CTLL)	a. Definition of Contextual Teaching and Learning (CTL) approach b.Purpose Contextual Teaching and Learning (CTL) c. Learning strategy Contextual Teaching and Learning (CTL).	Strategy: 1. Models: STAD 2. Methods: lecture, discussion, presentation, question and answer, assignment. 3. With the provision of understanding independently, and in groups, mutually strengthen understanding of the approach Contextual Teaching and Learning (CTL). 4. Students, under the guidance of lecturers, draw conclusions regarding the	Work independently and in groups and interact with other students discussing approaches Contextual Teaching and Learning (CTL).	Process assessment which includes: 1. attitude, 2. knowledge 3. skills 4. task	■ Assessmen t criteria: PAP ■ Form of assessment : oral, written, portfolio	5%	6.13

				Learning		Evaluation Type Criteria			
Weeks	Sub-CLO	Indicator	Study Material	Strategies (Models and Methods)	Student Learning Experience	Туре	Criteria	Weight (%)	Referenc e
	work towards the completion of the work assigned under his responsibility.			approach Contextual Teaching and Learning (CTL).					
7	a. Mastering the theory of problem solving approaches, to support biology learning in schools. b. Have independent motivation to always follow scientific developments in problem solving approaches, as the basis for scientific approaches to their profession; d. Demonstrate a responsible attitude towards work in studying problem solving approaches, as a scientific basis for his profession e. Able to be responsible for the achievement of group work results and for the completion of the	Explain: a. Understandin g of problem solving approach (problem solving) b. Theories that support the Problem Solving approach. c. Approach learning steps problem solving d. The advantages and disadvantages of the problem solving approach include:	a. Understandin g of problem solving approach (problem solving) b. Theories that support the Problem Solving approach. c. Approach learning steps problem solving d. The advantages and disadvantages of the problem solving approach	Strategy: 1. Models: STAD 2. Methods: lecture, discussion, presentation, question and answer, assignment. 3. With the provision of understanding independently, and in groups, mutually strengthen understanding of problem solving approaches 4. Students, under the guidance of lecturers, draw conclusions regarding the problem solving	and in groups and interact with other students discussing problem solving approaches	Process assessment which includes: 1. attitude, 2. knowledge 3. skills 4. task	■ Assessmen t criteria: PAP ■ Form of assessment : oral, written, portfolio	10%	11,13,14

		a	Learning		I	Evaluation			
Weeks	Sub-CLO	Indicator	Study Material	Strategies (Models and Methods)	Student Learning Experience	Туре	Criteria	Weight (%)	Referenc e
8	work assigned under his responsibility;			approach					
9	a. Mastering constructivism	Explain: a.Understanding	a.Understanding the	Strategy: 1. Models:		Process assessment	Assessmen t criteria:	10%	13.14
		•	_	1. Models: STAD 2. Methods: lecture, discussion, presentation, question and answer, assignment. 3. With the provision of understanding independently, and in groups, mutually strengthen understanding of the constructivistme approach 4. Students, under the guidance of lecturers, draw	Work independently and in groups and interact with other students discussing the constructivism approach			10%	13.14
	achievement of group work results and for the	Approach		conclusions regarding the constructivist- me . approach					

				Learning		Evaluation			
Weeks	Sub-CLO	Indicator	Study Material	Strategies (Models and Methods)	Student Learning Experience	Туре	Criteria	Weight (%)	Referenc e
	completion of the work assigned under his responsibility;								
10	a.Mastering the theory of approach Open-Ended Learning approach to support biology learning in schools. b. Have independent motivation to always follow the development of scientific approachesOpen-Ended Learning as the basis for a scientific approach to his profession; d. Demonstrate a responsible attitude towards work in learning approachesOpen-Ended Learning as a scientific basis for his profession e. Able to be responsible for the achievement of group work results and for the completion of the work assigned under	Explain: a.Understanding Approach Open-Ended Learning b. Steps of the Open-Ended Learning approach c. The advantages and disadvantages of the Open- Ended Learning approach	a.Understanding Approach Open-Ended Learning b. Steps of the Open-Ended Learning approach c. The advantages and disadvantages of the Open- Ended Learning approach	Strategy: 1. Models: STAD 2. Methods: lecture, discussion, presentation, question and answer, assignment. 3. With the provision of understanding independently, and in groups, mutually strengthen understanding of the approach Open-Ended Learning 4. Students, under the guidance of lecturers, draw conclusions regarding the approach Open-Ended Learning	1	Process assessment which includes: 1. attitude, 2. knowledge 3. skills 4. task	■ Assessmen t criteria: PAP ■ Form of assessment : oral, written, portfolio	10%	13.14

				Learning		Evaluation			
Weeks	Sub-CLO	Indicator	Study Material	Strategies (Models and Methods)	Student Learning Experience	Туре	Criteria	Weight (%)	Referenc e
	nis responsibility;								
11 a. b.	science process skills approach to support biology learning at school b. Able to demonstrate independent, quality, and measurable performance in determining appropriate science process skills in biology learning	Explain: a. Understandin g science process skills b. Benefits of Science process skills c. Assessment of science process skills; d.Indicators of science process skills and their characteristics	a. Understandin g science process skills b. Benefits of Science process skills c. Assessment of science process skills; d.Indicators of science process skills and their characteristics	Strategy: 1. Models: STAD 2. Methods: lecture, discussion, presentation, question and answer, assignment. 3. With the provision of understanding independently, and in groups, mutually strengthen understanding of the science process skills approach 4. Students, under the guidance of lecturers, draw conclusions regarding the approach to science process skills	and in groups and interact with other students discussing the	Process assessment which includes: 1. attitude, 2. knowledge 3. skills 4. task	■ Assessmen t criteria: PAP ■ Form of assessment : oral, written, portfolio	10%	4.8

				Learning		E			
Weeks	Sub-CLO	Indicator	Study Material	Strategies (Models and Methods)	Student Learning Experience	Туре	Criteria	Weight (%)	Referenc e
12	achievement of group work results and for the completion of the work assigned under his responsibility; a. Able to master	a. Explaining	a. Definition of	Strategy:	Work independently	Discipline	Assessment		2,3,10, 13
	learning models to support biology learning at school b. Able to show independent, quality, and measurable performance in determining the right learning model in biology learning c. Have independent motivation to always follow scientific developments continuously as the basis for continuous learning models as the scientific basis for their profession; d. Demonstrate a responsible attitude towards work in studying learning models as a scientific basis for their profession.	learning models b. Explaining learning models Learning model Direct (Direct Instruction) Learning modelCooperative (Cooperative Learning) Learning modelContextual (Contextual (Contextual Teaching and Learning) Learning modelGuided Discovery (Discovery Learning) Learning modelProblem Based (Problem	learning model b. Learning models: Learning model Direct (Direct Instruction) Learning modelCooperati ve (Cooperative Learning) Learning model Contextual (Contextual Teaching and Learning) Learning model Guided Discovery (Discovery Learning) Learning modelProblem Based (Problem	1. Models: STAD 2. Methods: lecture, discussion, presentation, question and answer, assignment. 3. With the provision of understanding independently, and in groups, mutually strengthen understanding of learning models and the steps 4. Students, under the guidance of lecturers, make conclusions regarding	and in groups and interact with other students about learning models and the steps	(seriousness in attending lectures, punctuality in collecting assignments)	criteria: PAP Assessment indicators: Communic ation skills in making presentatio ns (indicators: mastery of the material, ability to explain, ability to use media, mastery and class manageme nt) Activity (indicators: number of questions/r esponses, quality of		

				Learning		Evaluation			
Weeks Su	b-CLO In	ndicator	Study Material	Strategies (Models and Methods)	Student Learning Experience	Туре	Criteria	Weight (%)	Referenc e
achiev results work a and ev comple work a his res	sible for the ement of the of group nd supervise aluate the etion of the ssigned under consibility	d Learning)	Based Learning)	learning models and the steps			questions, accuracy of responses/a nswers		
suppo learnii b. Able t indepe and me perform determ approp method learnii c. Have i motiva follow develo continu basis f learnii the sci for the d. De	lea methods to the thiology and at school of demonstrate and and the thiology grate learning ariate learning and the thiology grate learning and the thiology grateful and thiology grateful and the thiology grateful and the thiology gratef	arning ethods The transport to the service of the	a. Definition of learning method b. Learning methods: lecture method (conventional), discussion, question and answer, recitation, experiment, field trip, assignment, percentage c. The advantages and disadvantages of each learning model	Strategy: 1. Models: STAD 2. Methods: lecture, discussion, presentation, question and answer, assignment. 3. With the provision of understanding independently, and in groups, mutually strengthen understanding of teaching methods, the advantages and disadvantages of teaching methods	Work independently and in groups and interact with other students about teaching methods, advantages and disadvantages of teaching methods	Discipline (seriousness in attending lectures, punctuality in collecting assignments)	Assessment criteria: PAP Assessment indicators: Communic ation skills in making presentations (indicators: mastery of the material, ability to explain, ability to use media, mastery and class management) Activity (indicators: number of	7.5	5,6,9,12

				Learning		Evaluation			
Weeks	Sub-CLO	Indicator	Study Material	Strategies (Models and Methods)	Student Learning Experience	Туре	Criteria	Weight (%)	Referenc e
	his profession. e. Able to be responsible for the achievement of group work results and supervise and evaluate the completion of the work assigned under his responsibility;			4. Students, under the guidance of lecturers, make conclusions regarding teaching methods, advantages and disadvantages of teaching methods			questions/r esponses, quality of questions, accuracy of responses/a nswers		
14	a. Able to master concept maps (understanding, benefits, types and methods of making) to support biology learning at school b. Able to apply logical, critical, systematic, and innovative thinking in the context of developing a concept map that pays attention to and applies humanities values in accordance with the field of Biology Education. c. Demonstrate a responsible attitude towards work in	Explain: a. understanding of concept map b. Benefits of concept maps c. Concept map types d. how to make a concept map	a. Definition of concept map b. Benefits of concept maps c. Concept map types d. how to make a concept map	Strategy: 1. Models: STAD 2. Methods: lecture, discussion, presentation, question and answer, assignment. 3. With the provision of understanding independently, and in groups, mutually strengthen understanding of concept maps (understanding	and in groups and interact with other students about	Process assessment which includes: 1. attitude, 2. knowledge 3. skills 4. task	 Assessmen t criteria: PAP Form of assessment: oral, written, portfolio 	7.5	6.10

				Learning		E	Evaluation		
Weeks	Sub-CLO	Indicator	Study Material	Strategies (Models and Methods)	Student Learning Experience	Туре	Criteria	Weight (%)	Referenc e
	studying concept maps as a scientific basis for their profession			, benefits, types and methods of making)					
	d. Able to be responsible for the achievement of group work results and supervise and evaluate the completion of the work assigned under his responsibility;			4. Students, under the guidance of lecturers, draw conclusions regarding concept maps (understanding, benefits, types and methods of making)					
15	a. Able to master basic teaching skills to support biology learning at school b. Able to demonstrate independent, quality, and measurable performance in understanding basic teaching skills in biology learning c. Demonstrate a responsible attitude towards work in learning basic teaching skills as a scientific basis for their profession	a. Explain the meaning of basic teaching skills b. Explaining 8 basic teaching skills, skills: 1) asking, 2) providing reinforcement, 3) making variations, 4) explaining, 5) opening and closing lessons, 6) guiding small group discussions,	a. Understandin g basic teaching skills b. 8 basic teaching skills, skills: 1) asking, 2) providing reinforcement , 3) making variations, 4) explaining, 5) opening and closing lessons, 6) guiding small group discussions,		Strategy: 1. Models: STAD 2. Methods: lecture, discussion, presentation, question and answer, assignment. 3. With the provision of understanding independently, and in groups, mutually strengthen understanding of the 8 basic	Work independen tly and in groups and interact with other students discussing the 8 basic teaching skills	Process assessment which includes: 1. attitude, 2. knowledge 3. skills 4. task	■ Assessm ent criteria: PAP ■ Form of assessme nt: oral, written, portfolio	9,10,13

				Learning		E	Evaluation		
Weeks	Sub-CLO	Indicator	Study Material	Strategies (Models and	Student Learning	Type	Criteria	Weight	Referenc
				Methods)	Experience			(%)	e
	d. Able to be responsible for the achievement of work results towards the completion of work related to basic teaching skills under his responsibility e. Able to be responsible for the achievement of group work results and for the completion of the	7) managing the class ,8) teach small groups and individuals	7) managing the class, 8) teach small groups and individuals		teaching skills 4. Students, under the guidance of lecturers, make conclusions regarding 8 basic teaching skills				
	work assigned under his responsibility;								
16	, , , , , , , , , , , , , , , , , , , ,			Final Semest	er Exam		ı		1

Samarinda, March 4, 2020

Coordinator of Biology Education Study program

Course Coordinator

Dr. Hj. Herliani, M.Pd

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