

Universitas Negeri Surabaya Faculty of Sports and Health Sciences Sports Science Doctoral Study Program

Document Code

SEMESTER LEARNING PLAN

Courses			CODE			C	Course Family				Credit Weight					SEM	ESTER		Compilation Date		
Biopsychology		8900102003				Compulsory Study Program Subjects			y	T=2 P=0 ECTS=5.04			5.04		1		July 17, 2024				
AUTHORIZATION			SP Developer				rogia	Course Cluster Coordinator					tor	Study Program Coordinator							
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Learning model	I	Case Studies																			
Program Learning		PLO study prog	gram w	which is ch	argeo	d to tl	he co	urs	е												
Outcom		PLO-6 Demonstrate an attitude of responsibility for work in the field of sports science independently (S2) (PLO-2)											-2)								
(PLO)		PLO-7	Able to discover or develop new scientific theories/conceptions/ideas, contribute to the development and practice of science and/or technology in the field of sports science which pays attention to and applies humanities values by producing scientific research based on scientific methodology, logical, critical, systematic and systematic thinking. creative.																		
		PLO-10	critical, logical and creative thinking (KK1) (PLO-10)																		
		PLO-14	Maste	er scientific p	rincip	les the	eoretic	cally	and p	ractic	ally w	vell in	sol	ving	prob	lems th	nat ari	se in t	he field	of	sports.
		Program Objec																			
		PO - 1		o explain an elationship to					conce	pts, r	erve	func	tion	and	l orga	an stru	cture	of the	human	bo	dy as well as
		PLO-PO Matrix																			
				P.0		PLO	D-6		F	PLO-7			ΡL	0-1	0		PLO-:	14			
				PO-1																	
PO Matrix at the end of each learning stage (Sub-PO)																					
				P.0									Week								
					1	2	3	4	5	6	7	8	9)	10	11	12	13	14	1	5 16
			PO)-1																	
Short Course		Understanding ar skeletal muscles	nd mast	tery of huma	n phy	vsiolog	jy whi arding	ch ii	nclude	s the	struc	ture	and	fun	ction	of nerv	ves, th	e cen	tral nerv	vou	s system and
Descript	tion	emotions, reprod																			
Referen	ces	Main :																			
		 Neil R. C Pencaria 			ology	of \be	havio	r 11	th edit	on. E	dinbu	ırg ga	ate.	Pea	rson	Educat	tion Li	mited			
		Supporters:																			
Support lecturer	ing	Dr. dr. Endang Si	i Wahju	uni, M.Kes.																	
Week-	eac	nal abilities of ch learning age ub-PO)		Evaluation						Help Learning, Learning methods, Student Assignments, [Estimated time]							Learning materials [References			Assessment Weight (%)	
				Indicator Criteria & Form						line (Online (online)]				3	110.git (70)						

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	understand the general structure and function of the central and peripheral nervous system, cerebral cortex, brainstem, cranial and spinal nerves	 explain the structure of nerves explain the relationship between nerves and motor behavior 	Form of Assessment : Participatory Activities	lectures, discussions and questions and answers 2 X 50		Material: general structure and function of the central and peripheral nervous system Reference: <i>Neil R.</i> <i>Carlson.</i> 2014. <i>Physiology of</i> <i>Vbehavior 11th</i> <i>edition.</i> <i>Edinburgh</i> <i>Gate.</i> <i>Pearson</i> <i>Education</i> <i>Limited</i>	5%
2	understand how the nervous system works in communication	 1.explain neurons 2.explain myelin 3.explain saltatory conduction 4.explain synapse 	Form of Assessment : Participatory Activities	lectures, discussions and questions and answers 2 X 50			5%
3	understand the nervous conduction system	 Name and explain the function of nerves explain neurotransmitters explain ionotropic and metabotropic explain excitation and inhibition 	Form of Assessment : Participatory Activities	lectures, discussions and questions and answers 2 X 50			5%
4	understand about the types of neurotransmitters and hormones	explains the function of adrenaline, acetylcholine, serotonin, dopamine, glutamate and several hormones: testosterone, estrogen, growth hormone	Form of Assessment : Participatory Activities	lectures, discussions and questions and answers 2 X 50			5%
5	understand sensory and motor systems	explain the structure and function of sensory and motor systems	Form of Assessment : Participatory Activities	lectures, discussions and questions and answers 2 X 50			5%
6	understand movement and motor control systems	Explain the flow of movement from the brain to skeletal muscle	Form of Assessment : Participatory Activities	lecture, question and answer and discussion 2 X 50			5%
7	understand complex brain function, forebrain, limbic forebrain.	explain the structure and function of the forebrain and limbic forebrain	Form of Assessment : Participatory Activities	lectures, discussions and questions and answers 2 X 50			5%
8				2 X 50			15%
9	understand sleep behavior	1.explain the stages of sleep 2.explains non REM and REM sleep	Form of Assessment : Participatory Activities	presentation, lecture, discussion, question and answer 2 X 50			5%
10	understand reproductive behavior	 explain sexual development explains hormonal control of sexual behavior explains the neural control of sexual behavior 	Form of Assessment : Participatory Activities	presentation, discussion, question and answer 2 X 50			5%

11	understand emotions and stress	 explains the neural control of emotional response patterns explain simple, complex and social emotional situations 		presentation, discussion, question and answer 2 X 50	n o e re F R N C 2 2 F F N C 2 E G G E E G G E E	Atterial: Atterial: Atternal:	5%
12	understand eating and drinking behavior	 explains fluid balance, hormones, vasopressin Describe the renin angiotensin system explain food metabolism 		presentation, discussion, question and answer 2 X 50	u e d b F F 2 F W e E G F W e E G F E E	Material: inderstanding vating and trinking ehavior Reader: Neil 2. Carlson. 2014. 2	5%
13	understand about learning and remembering	 explains the influence of learning on neural structure and function explain long-term potential explain the role of the NMDA receptor explain the mechanisms of synaptic plasticity 	Form of Assessment : Participatory Activities	presentation, discussion, question and answer 2 X 50	u le R R Z F V V U U E E G G E E E E	Material: inderstanding earning and emembering Reader: Neil 2. Carlson. 2014.	5%
14	understand the relational learning process	 explain the role of the hippocampus explain declarative and non-declarative memory explain relational learning 	Criteria: Formulating the relational learning process Form of Assessment : Participatory Activities, Tests	presentation, discussion, question and answer 2 X 50	re le P F R C 2 F I & E G G E E E E E E	Material: elational earning process Reference: Jeil R. Carlson. 2014. Physiology of behavior 11th dition. Edinburgh Sate. Pearson Education imited	5%
15	understand learning and remembering	 explain the terms perceptual training, classical conditioning, instrumental conditioning explains about strengthening synapse connections, the role of dopamine 	Form of Assessment : Participatory Activities	presentation, discussion, question and answer 2 X 50	p le c c c c c c c c c c c c c c c c c c	Material: erceptual earning, lassical onditioning, nstrumental onditioning Reference: leil R. Carlson. 7014. Physiology of behavior 11th dition. Edinburgh Gate. Pearson Education imited	5%
16		Midterm exam					15%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	57.5%
2.	Test	2.5%
		60%

Notes

- Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study
 Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their
 study program obtained through the learning process.
- The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program) which are
 used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
- 3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- 4. **Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- 5. Indicators for assessing ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- 6. Assessment Criteria are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- 7. Forms of assessment: test and non-test.
- 8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- 9. Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning,
- Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods. 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main points
- and sub-topics. 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the
- level of difficulty of achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.