	Universitas Negeri Surabaya Faculty of Sports and Health Sciences, Undergraduate Nutrition Study Program	Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight			SEMESTER	Compilation Date
Anatomy Physiology	1321103106	Compulsory Study Program Subjects	T=3	P=0	ECTS=4.77	1	July 18, 2024

AUTHORIZATION	SP Developer	Course Cluster Coordinator	Study Program Coordinator
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Learning model	**Project Based Learning**

Program Learning Outcomes (PLO)

PLO study program that is charged to the course

PLO-9	Able to have an attitude of belief in the Almighty God, be ethical, disciplined, aware of the law, have a social and cultural insight, and behave professionally.

Program Objectives (PO)

PO - 1	Able to understand the anatomy and physiology of the human body and work together in groups and be responsible for their duties

PLO-PO Matrix

P.O	PLO-9
PO-1	

PO Matrix at the end of each learning stage (Sub-PO)

P.O	Week															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PO-1																

Short Course Description

This course will discuss the principles of anatomy of the integument, bones, joints, muscles and nerves, digestive, respiratory, cardiovascular, hormone, five senses, urinary and reproductive systems. Lectures are carried out with presentations and discussions, project assignments and reflections.

References

Main :

1. Introduction to Human Physiology - Sherwood, Sobota atlas of Anatomy
2. Textbook of Medical Physiology - Guyton and Hall
3. Ganong's Review of Medical Physiology
4. Textbook Anatomi Tubuh Manusia oleh Werner Platzer
5. Sobota atlas of Anatomy

Supporters:

1. Anatomi dan Fisiologi untuk paramedis,1985,Evelyn C.Pearce-EGC
2. Anatomi dan Fisiologi,1995,Ethel Sloane,EGC

Supporting lecturer

dr. Erick Tanara, Sp. An
dr. Sonny Soebjanto, Sp. T.H.T.K.L
dr. Rizky Patria Nevangga, M.Or.
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dr. Devi Purnamasari Sasongko, M.Biomed.
dr. Hanifiya Samha Wardhani, M.Kes.

Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assessment Weight (%)
		Indicator	Criteria & Form	Offline (*offline*)	Online (*online*)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	1. Understand the meaning of anatomy and physiology 2. Understand cells, tissues, organs and systems	1. Able to explain the meaning of anatomy and physiology and the scope of anatomy and physiology. 2. Able to explain terminology and several terms in anatomy and physiology 3. Understand and be able to identify cells, organelles and tissues, organs and body systems	**Criteria:** 1. Full marks are obtained if you do all the questions correctly 2. Activeness in class 3. Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%
2	Get to know the anatomy and physiology of locomotion, including the anatomy of bones and joints (Osteology)	Able to identify types of bones and names of bones and types of joints and their physiology	**Criteria:** 1. Full marks are obtained if you do all the questions correctly 2. Activeness in class 3. Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%
3	Get to know the anatomy and physiology of muscles and integuments (Myology)	1. Able to identify types of muscles and names of body muscles 2. Able to identify the structure of skin, nails, hair and sweat glands	**Criteria:** 1. Full marks are obtained if you do all the questions correctly 2. Activeness in class 3. Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%

4	Get to know the anatomy and physiology of the cardiovascular system (Heart and blood vessels)	Able to describe the Anatomy and Physiology of the heart and blood vessels	**Criteria:** 1. Full marks are obtained if you do all the questions correctly 2. Activeness in class 3. Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%
5	1. Get to know the anatomy and physiology of the digestive system 2.	Able to describe the anatomy and physiology of the digestive tract from the mouth to the rectum-anus	**Criteria:** 1. Full marks are obtained if you do all the questions correctly 2. Activeness in class 3. Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%
6	1. Get to know the anatomy and physiology of the digestive system 2.	1. Be able to describe the structure and function of the digestive system organs: liver, bile, pancreas, etc 2. Be able to describe the accessory organs of the digestive system	**Criteria:** 1. Full marks are obtained if you do all the questions correctly 2. Activeness in class 3. Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%
7	1. Get to know the anatomy and physiology of the respiratory system 2.	Able to describe the anatomy and physiology of the upper and lower respiratory tract	**Criteria:** 1. Full marks are obtained if you do all the questions correctly 2. Activeness in class 3. Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%

8	1. Mastering face-to-face material 1-7 2. UTS	Mastering face-to-face material 1-7	**Criteria:** Full marks are obtained if you do all the questions correctly **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%
9	Get to know the anatomy and physiology of the endocrine system	1. Mastering the Anatomy and Physiology of the Endocrine System 2. Describe the anatomy and physiology of the endocrine glands, the hormones and enzymes they produce	**Criteria:** 1. Full marks are obtained if you do all the questions correctly 2. Activeness in class 3. Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%
10	Get to know the anatomy and physiology of the endocrine system	1. Mastering the Anatomy and Physiology of the Endocrine System 2. Describe the anatomy and physiology of the endocrine glands, the hormones and enzymes they produce	**Criteria:** 1. Full marks are obtained if you do all the questions correctly 2. Activeness in class 3. Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%
11	Get to know the anatomy and physiology of the urinary system	1. Mastering the Urinary System 2. Describe the anatomical and physiological structure of the kidneys, ureters, urinary visca, urethra	**Criteria:** 1. Full marks are obtained if you do all the questions correctly 2. Activeness in class 3. Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%

12	Get to know the anatomy and physiology of the nervous system	1. Mastering the Nervous System 2. Describe the anatomy and physiology of the nervous system organization 3. Understanding the central nervous system: brain and spinal cord 4. Understanding the peripheral nervous system: cranial nerves, spinal nerves	**Criteria:** 1. Full marks are obtained if you do all the questions correctly 2. Activeness in class 3. Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%
13	Get to know the Anatomy and Physiology of the Five Senses system	1. Describe the anatomy and physiology of the organs of sight (eyes), hearing (ears), taste (tongue), smell (nose), touch (skin) 2. Able to explain the anatomy and physiology of the five sensory systems	**Criteria:** 1. Full marks are obtained if you do all the questions correctly 2. Activeness in class 3. Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%
14	Get to know the Anatomy and Physiology of the Male reproductive system	Describe the anatomy and physiology of the testes, vas deferens, seminal vesicles, prostate and penis. Spermatogenesis.	**Criteria:** 1. Full marks are obtained if you do all the questions correctly 2. Activeness in class 3. Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%
15	Get to know the Anatomy and Physiology of the Female reproductive system	1. Describe the anatomy and physiology of the ovaries, uterine tubes, uterus, vagina, oogenesis. 2. Understanding the menstrual cycle. The process of fertilization and pregnancy	**Criteria:** 1. Full marks are obtained if you do all the questions correctly 2. Activeness in class 3. Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%

16	1.Understanding meeting material 9-15 2.UAS	1.Understanding Material 9-15 2.	**Criteria:** 1.Full marks are obtained if you do all the questions correctly 2.Activeness in class 3.Presence Participation **Forms of Assessment** : Participatory Activities, Project Results Assessment / Product Assessment, Practical Assessment, Tests	Offline 1x150 minutes	online 1x150 minutes		0%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
		0%

Notes

1. **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.
2. **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.