



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																																
Pathophysiology of Non-Communicable Diseases	1321102023		T=0	P=0	ECTS=0	4	July 17, 2024																																
AUTHORIZATION	SP Developer		Course Cluster Coordinator			Study Program Coordinator																																	
			Amalia Ruhana, S.P., M.P.H.																																	
Learning model	Case Studies																																						
Program Learning Outcomes (PLO)	PLO study program that is charged to the course																																						
	Program Objectives (PO)																																						
	PLO-PO Matrix																																						
		P.O																																					
	PO Matrix at the end of each learning stage (Sub-PO)																																						
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width: 5%; text-align: center;">P.O</td> <td colspan="16" style="text-align: center;">Week</td> </tr> <tr> <td style="width: 2%;">1</td> <td style="width: 2%;">2</td> <td style="width: 2%;">3</td> <td style="width: 2%;">4</td> <td style="width: 2%;">5</td> <td style="width: 2%;">6</td> <td style="width: 2%;">7</td> <td style="width: 2%;">8</td> <td style="width: 2%;">9</td> <td style="width: 2%;">10</td> <td style="width: 2%;">11</td> <td style="width: 2%;">12</td> <td style="width: 2%;">13</td> <td style="width: 2%;">14</td> <td style="width: 2%;">15</td> <td style="width: 2%;">16</td> </tr> </table>						P.O	Week																1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
P.O	Week																																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																							
Short Course Description	This course discusses the principles of etiology and pathogenesis of malnutrition, infections, immunological allergies, endocrine metabolic disorders, trauma and cancer; clinical and laboratory features of these diseases, as well as their relationship to changes in nutrient metabolism. The material in this lecture also includes an introduction to symptoms, general signs, etiology, epidemiology, medical diagnosis, medical data and therapy used in order to consider giving diet to sufferers. Learning activities in this course are carried out through learning experiences, lectures and discussions.																																						
References	Main :																																						
	1. 1. Mahan, K.L and S. Escot-Stump.Krause 1Ds. 2012. Food, Nutrition and Diet Therapy. Philadelphia : WB SaundersCo.Ed.11, 2. Nelms, M., et al. 2008. NutritionalTherapy and Pathophysiology. Belmont, CA 3. Sylvia, Wilson LM. Pathophysiology.Konsep Klinis Proses Penyakit. EGC. 2010																																						
	Supporters:																																						
Supporting lecturer	Dr. dr. Endang Sri Wahjuni, M.Kes. dr. Sonny Soebjanto, Sp. T.H.T.K.L dr. Tri Putra Rahmad Ramadani, Sp.Rad. dr. Nieke Andina Wijaya, M.Biomed., Sp.KK dr. Sisi Artayasuinda, Sp.KJ dr. Rizky Patria Nevangga, M.Or. 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	Understand the scope of pathophysiology and the relationship between the pathophysiology of non-communicable diseases and nutrition	- Able to explain the meaning of pathophysiology - Able to explain the scope of pathophysiology. - Able to describe the relationship between the pathophysiology of non-communicable diseases and diet therapy		Lectures and questions and answers 2 X 50			0%
2	Mastering the causes and pathogenesis of nutritional status disorders: obesity and anorexia	Able to explain the causes and pathogenesis of nutritional status disorders: obesity and anorexia		Lectures, discussions and questions and answers 2 X 50			0%
3	Able to explain the definition of cancer, the causes of cancer, and the pathogenesis of cancer	Explains the definition of anemia, causes of cancer, classification of cancer, and pathogenesis of cancer		Lectures, discussions and questions and answers 2 X 50			0%
4	Able to explain the definition of dyslipidemia and the pathophysiology of dyslipidemia	- Able to explain the definition of dyslipidemia, lipid metabolism in the body and the pathophysiology of dyslipidemia -		Lectures, discussions, questions and answers 2 X 50			0%
5	Able to explain the physiology of thyroid hormones and the pathophysiology of thyroid gland disorders.	- Able to explain the biosynthesis and metabolism of thyroid hormones, the function of thyroid hormones and the pathophysiology of thyroid gland disorders		Lectures, discussions, questions and answers 2 X 50			0%
6	Able to explain the definition of Diabetes Mellitus, classification of DM, and pathogenesis of DM	Explain the definition of Diabetes Mellitus, classification of DM, and pathogenesis of DM		Lectures, discussions and questions and answers 2 X 50			0%
7	Able to explain the definition of hypertension, causes of hypertension, classification of hypertension, and pathogenesis of hypertension	Explain the definition of hypertension, causes of hypertension, classification of hypertension, and pathogenesis of hypertension		Lectures, discussions and questions and answers 2 X 50			0%
8	UTS	UTS		UTS 2 X 50			0%
9	Able to explain the principles of fluid balance in the body	- Explain the definition of fluid balance and the basic principles of fluid balance		Lectures, discussions and questions and answers 2 X 50			0%
10	Able to explain the causes and pathogenesis of kidney failure	Explain the causes and pathogenesis of kidney failure		Lectures, discussions and questions and answers 2 X 50			0%

11	Able to describe the pathophysiology of algae. Hematology system	Able to explain the epidemiology of algae. Hematological system, etiology and pathophysiology of disorders. Hematology, and prevention and rehabilitation		Lectures, discussions and questions and answers 2 X 50			0%
12	Able to explain the definition and pathophysiology of heart disease	Explain the definition of heart disease, causes of heart disease and pathogenesis of heart disease		Pathophysiology of heart disease 2 X 50			0%
13	Able to explain the definition and pathophysiology of liver disease	Explain the definition of liver disease, causes of liver disease and pathogenesis of liver disease		Lectures, discussions and questions and answers 2 X 50			0%
14	Able to explain the causes of disease, damage and trauma to musculoskeletal structures and their pathogenesis	Explains the causes of disease, damage and trauma to the musculoskeletal structure and its pathogenesis		Lectures, discussions and questions and answers 2 X 50			0%
15	Students understand genetic disorders	Understand the basic concepts of genetics, causes of genetic disorders, various types of genetic disorders		Lectures, discussions and questions and answers 2 X 50			0%
16							0%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
		0%

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.
- 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.
- 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.
- 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.
- 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.
- Forms of assessment:** test and non-test.
- 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.
- 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.
- Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 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%.
- TM=Face to face, PT=Structured assignments, BM=Independent study.

