

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

Document Code

UNI	ESA																
SEMESTER LEARNING PLAN																	
Courses			(CODE			Course Family		Credit Weight		SEMESTER	Compilation Date					
PERFOR ERGONI		NUTRITION AND		8	8920102226					T=2 P=0 ECTS=3.18		1	July 17, 2024				
AUTHORIZATION			\$	SP Developer					Course Cluster Coordinator			oordinator	Study Program Coordinator				
				Dr.						ahyudi, S.Or., Pd.							
Learning		Project Based Lo			io obe	orand	to the		***								
Progran Learnin Outcom	g	PLO study prog Program Objec	_			argeu	to the	e cou	rse								
(PLO)	ies	PLO-PO Matrix		o (i. o)													
				F	P.O												
		PO Matrix at the end of each learning stage (Sub-PO)															
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				P.O							Week 9 10 11 12 13 14				15 16		
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Short Course Description		This course discusses athlete performance and the current understanding of the most widely used nutritional ergogenic aids; dietary supplements to improve physical and athletic performance. The discussion includes the definition and regulation of ergogenic aids nutrition, amino acid derivatives, fat derivatives, other substances in other foods and evaluation of effectiveness. Covers the physical aspects of supplement use, the psychological effects on users and discusses various government regulations. Lectures are conducted to measure the achievement of learning competencies using a problem based learning approach, discussions, questions and answers, assignments. Assessment is carried out by performance, written tests and portfolios															
Referen	ces	Main :															
		 Mike Greenwood, Matthew B. Cooke, Tim Ziegenfuss, Douglas S. Kalman, Jose Antonio. 2015. Nutritional Supplements in Sports and Exercise. Springer International Publishing Switzerland. Ira Wolinsky, Judy A. Driskell. 2004. Nutritional Ergogenic Aids. CRC Press LLC Ira Wolinsky, Judy A. Driskell. 2000. Nutritional Applications in Exercise and Sport. CRC Press LLC 							upplements in								
		Supporters:															
Support lecturer		Anna Noordia, S. Yetty Septiani Mu Anindya Mar'atus	ıstar,	, S.KM.	M., M.P.H.												
Week-		abilities of each			Evaluation					Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References	Assessment Weight (%)				
		,		lr	ndicat	tor		Crite	eria & F	orm		ine (ine)	C	nline	(online)	1	
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1	Able to analyze basic concepts of nutrition for physical and athletic performance	1.Explain the basic concepts of nutrition 2.Explain the concepts of physical performance and athleticism 3.Explain the link between nutrition and physical and athletic performance	Learning Form: Face- to-face lecture Learning Method: Lecture, discussion and question and answer Student assignment Independent assignment to search for literature related to basic concepts of nutrition for physical and athletic performance 2 X 50		0%
2	Able to analyze ergogenic aids and their regulations	1.Explain the concept of ergogenic aids 2.Explain the regulation of ergogenic aids	Learning Form: Face- to-face lecture Learning Method: Lecture, discussion and question and answer Student assignment Independent task to search for literature related to the concept of ergogenic aids and its regulations 2 X 50		0%
3	Able to analyze Arginine, Aspartate and branched chain Amino Acids	1.Explaining Arginine 2.Explain branched chain amino acids 3.Explaining Aspartate	Learning Form: Face- to-face lecture Learning Method: Lecture, discussion and question and question and answer Student assignment Independent assignment to search for literature related to Arginine, Aspartate and branched chain Amino Acids 2 X 50		0%
4	Able to analyze Arginine, Aspartate and branched chain Amino Acids	1.Explaining Arginine 2.Explain branched chain amino acids 3.Explaining Aspartate	Learning Form: Face- to-face lecture Learning Method: Lecture, discussion and question and answer Student assignment Independent assignment to search for literature related to Arginine, Aspartate and branched chain Amino Acids 2 X 50		0%

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5	Able to analyze Carnitine, Creatine and Gelatin	1.Explain the meaning of Carnitine, Creatine and Gelatin 2.Explain the types and characteristics of Carnitine, Creatine and Gelatin 3.Explain the interactions between Carnitine, Creatine and Gelatin	Learning Form: Face- to-face lecture Learning Method: Lecture, discussion and question and answer Student assignment Independent task to search for literature related to Carnitine, Creatine and Gelatin 2 X 50		0%
6	Able to analyze Carnitine, Creatine and Gelatin	1.Explain the meaning of Carnitine, Creatine and Gelatin 2.Explain the types and characteristics of Carnitine, Creatine and Gelatin 3.Explain the interactions between Carnitine, Creatine and Gelatin	Learning Form: Face- to-face lecture Learning Method: Lecture, discussion and question and answer Student assignment Independent task to search for literature related to Carnitine, Creatine and Gelatin 2 X 50		0%
7	Able to understand Glutamine, Glucosamine and chondroitine sulfate	1. Explain the meaning of Glutamine, Glucosamine and chondroitine sulfate 2. Explain the types of reactions of Glutamine, Glucosamine and chondroitine sulfate 3. Explain the types of Glutamine, Glucosamine and chondroitine sulfate	Learning Form: Face- to-face lecture Learning Method: Lecture, discussion and question and question and answer Student assignment Independent task to search for literature related to Glutamine, Glucosamine and chondroitine sulfate 2 X 50		0%
8	UTS		2 X 50		0%
9	Able to analyze Lysine, Ornithine, Taurine and b Hydroxymethylbutyrate	1.Explain the role of Lysine, Ornithine, Taurine and b Hydroxymethylbutyrate 2.Explain the interactions of Lysine, Ornithine, Taurine and b Hydroxymethylbutyrate	Learning Form: Face- to-face lecture Learning Method: PBL 2 X 50		0%
10	Able to analyze Lysine, Ornithine, Taurine and b Hydroxymethylbutyrate	1.Explain the role of Lysine, Ornithine, Taurine and b Hydroxymethylbutyrate 2.Explain the interactions of Lysine, Ornithine, Taurine and b Hydroxymethylbutyrate	Learning Form: Face- to-face lecture Learning Method: PBL 2 X 50		0%

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abbetrores in food of ance an act as epogenic adds 2-committed the committee of the commit	11	conjugated linoleic	linoleic acid, triglycerides and glycerol 2.Explain the interaction of conjugated linoleic acid, triglycerides and		Form: Face- to-face lecture Learning Method: PBL		0%
substances in food that can act as ergogenic aids 2.Explain the interactions of other substances in food that can act as ergogenic aids 2.Explain the interactions of other substances in food that can act as ergogenic aids 3.Explain the interactions of other substances in food that can act as ergogenic aids 4.Explain the substances in food that can act as ergogenic aids 4.Explain the substances in food that can act as ergogenic aids 5.Explain the substances in food that can act as ergogenic aids 5.Explain the raiss of using ergogenic aids 6.Explain the raiss of using ergogenic aids 7.Explain the raiss of using ergogenic aids 8.Explain the raiss of ergogenic aids 8.	12	substances in food that can act as	other substances in food that can act as ergogenic aids 2.Explain the interactions of other substances in food that can act as		Form: Face- to-face lecture PBL method Student assignment Independent assignment to search for literature related to other substances in food that can act as ergogenic aids		0%
benefits and risks of using ergogenic aids 2. Explain the risks of using ergogenic aids 2. Explain the risks of using ergogenic aids 3. Explain the risks of using ergogenic aids 4. Explain the risks of using ergogenic aids 4. Explain the risks of using ergogenic aids 5. Explain the risks of using ergogenic aids 6. Explain the risks of using ergogenic aids 7. Explain the risks of using ergogenic aids 8. Explain the risks of using ergogenic aids 8. Explain the risks of using ergogenic aids 8. Explain the risks of using ergogenic aids 9. Explain the risks of using ergogenic aids 1. Explain the risks of using ergogenic aids 1. Explain the risks of using ergogenic aids 2. Explain the risks of ergogenic aids 2. Explain the risks of using ergogenic aids 2. Explain the risks of ergogenic aids	13	substances in food that can act as	other substances in food that can act as ergogenic aids 2.Explain the interactions of other substances in food that can act as		Form: Face- to-face lecture PBL method Student assignment Independent assignment to search for literature related to other substances in food that can act as ergogenic aids		0%
benefits and risks of using ergogenic aids advantages of using ergogenic aids 2. Explain the risks of using ergogenic aids 1. Explain the risks of using ergogenic aids 2. Explain the risks of using ergogenic aids 1. Explain the risks of using ergogenic aids 2. Explain the risks of using ergogenic aids 1. Explain the risks of using ergogenic aids 2. Explain the risks of using ergogenic aids 1. Explain the risks of using ergogenic aids 2. Explain the risks of using ergogenic aids 1. Explain the risks of using ergogenic aids 2. Explain the risks of using ergogenic aids 3. Explain the risks of using ergogenic aids 4. Explain the risks of using ergogenic aids 2. Explain the risks of using ergogenic aids 2. Explain the risks of using ergogenic aids 2. Explain the risks of using ergogenic aids 3. Explain the risks of using ergogenic aids 4. Explain the risks of using ergogenic aids 4. Explain the risks of using ergogenic aids 4. Explain the risks of using ergogenic aids 2. Explain the risks of using ergogenic aids 3. Explain the risks of using ergogenic aids 4. Explain the risks of using ergo	14	benefits and risks of	advantages of using ergogenic aids 2.Explain the risks of		Form: Face- to-face lecture Learning Method: Lecture, discussion and question and answer Student assignment Independent assignment to search for literature related to the benefits and risks of ergogenic aids		0%
	15	benefits and risks of	advantages of using ergogenic aids 2.Explain the risks of		Form: Face- to-face lecture Learning Method: Lecture, discussion and question and answer Student assignment Independent assignment to search for literature related to the benefits and risks of ergogenic aids		0%
	16	UAS			2 X 50		0%

Evaluation Percentage Recap: Project Based Learning

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.
- 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.
- 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.