

Universitas Negeri Surabaya Faculty of Sports and Health Sciences S1 Sports Coaching Education Study Program

Document Code

	SEMESTER LEARNING PLAN																			
Courses				CODE			Co	urse	Famil	у			Credit Weight		:	SEME	STER	Com Date	pilation	
Sports N	utriti	on Science		8520202079				Compulsory Study Program Subjects			T=2	P=0	ECTS=3.	18		4	Augu 2023	ust 1, }		
AUTHOR	IZAT	ION		SP Develop	er						Course	Cluste	er Coo	ordina	tor	:	Study	Program	n Coc	ordinator
				Raymond Iv	ano A	vandi, S	S.Pd., I	M.Ke	es. Raymond Ivano Avandi, S.Pd., M.Kes.			s.	Dr. Or. Muhammad, S.Pd., M.Pd.							
Learning model		Project Based L	earnin	ıg														101.1	u.	
Program		PLO study prog	gram	that is charg	jed to	the co	ourse													
Learning		Program Objec	tives	(PO)																
(PLO)		PO-1 Students can understand Balanced Nutrition Patterns for athletes and humans in general and can master theoretical concepts about Sports Nutrition.																		
		PLO-PO Matrix																		
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				P.0																
				PO-1																
		PO Matrix at th	O Matrix at the end of each learning stage (Sub-PO)																	
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Final abilities of each learning stage		Evaluation							Help Learning, Learning methods, Student Assignments, [Estimated time]		ethods, jnments,			mat	rning erials erences		essment ight (%)			
	(Su	b-PO)		Indicator	С	riteria		n	C		(offline)		0		(online)			1		
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nutrients as well as the amount and adequacy of nutrients	principles of sports nutrition 2.Be able to state the classification of nutrients 3.Able to determine the function and source of nutrients for athletes 4.Able to determine the recommended adequate amount of nutrients	sources of nutrients as well as the amount and adequacy of nutrients Form of Assessment : Participatory Activities, Portfolio Assessment		nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. Reader: <i>Irianto, Djoko</i> <i>Pekik.</i> 2007. <i>Complete</i> <i>Nutrition</i> <i>Guide for</i> <i>Families and</i> <i>Athletes.</i> <i>Yogyakarta:</i> <i>Andi Offset</i> <i>Publishers</i>
				Material: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. References: Almatzier, Sunita. 2001. Basic Principles of Nutrition Science. Jakarta : PT. Gramedia Pustaka Utama.
				Material: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. Reference: Bean A. 2009. Sports Nutrition. London: A & C Black Publishers Ltd.
				Material: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. References: <i>Clark, Nancy.</i> 1996. Sport <i>Nutrition</i> <i>Guide-Book.</i> <i>USA:</i> <i>Brookline</i> 830 <i>Boylston St.</i> <i>Brookline. MA</i> 02167.
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well as the amount and adequacy of nutrients. References: Moehii, Sjähmien, 2003. Nutrition Science. Volumes 1 and 2. Jakarta i.PT. Bhratara Niaga Media. well as the amount and addition and adequacy of nutrients. References: Material: Understanding the concept of sports nutrients, functions and sources of nutrients. nutrients. Reference: Well as the amount and adequacy of nutrients. Reference: Muchtail D. 2008. Introduction to Nutrition Science. Bandung: Alphabeta Publishers.	
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Readers:	
Anna Noordia,	
Agus	
Hariyanto,	
Raymond	
Ivano Avandi.	
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2	Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients	 Able to explain general concepts and principles of sports nutrition Be able to state the classification of nutrients Able to determine the function and source of nutrients for athletes Able to determine the recommended adequate amount of nutrients 	Criteria: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients Form of Assessment : Participatory Activities, Portfolio Assessment	Lectures, discussions and questions and answers 3 X 50	Material: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of <i>Reader:</i> <i>Irianto, Djoko</i> <i>Pekik, 2007.</i> <i>Complete</i> <i>Nutrition</i> <i>Guide for</i> <i>Families and</i> <i>Athletes.</i> <i>Yogyakarta:</i> <i>Andi Offset</i> <i>Publishers</i> Material: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of	5%
3	Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients	 Able to explain general concepts and principles of sports nutrition Be able to state the classification of nutrients Able to determine the function and source of nutrients for athletes Able to determine the recommended adequate amount of nutrients 	Criteria: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients Form of Assessment : Participatory Activities	Lectures, discussions and questions and answers 3 X 50	Material: the concept of sports nutrients, functions and sources of nutrients, functions and sources of nutrients. well as the amount and adequacy of nutrients. Reader: <i>linanto, Djoko</i> <i>Pekik. 2007.</i> <i>Complete</i> <i>Nutrition</i> <i>Guide for</i> <i>Families and</i> <i>Athletes.</i> <i>Yogyakarta:</i> <i>Andi Offset</i> <i>Publishers</i>	5%
4	Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients	 Able to explain general concepts and principles of sports nutrition Be able to state the classification of nutrients Able to determine the function and source of nutrients for athletes Able to determine the recommended adequate amount of nutrients 	Criteria: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients Form of Assessment : Participatory Activities	Lectures, discussions and questions and answers 3 X 50	Material: the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. Reader: <i>Irianto, Djoko</i> <i>Pekik. 2007.</i> <i>Complete</i> <i>Nutrition</i> <i>Guide for</i> <i>Families and</i> <i>Athletes.</i> <i>Yogyakarta:</i> <i>Andi Offset</i> <i>Publishers</i>	5%

5	Understand the concept of metabolism	 Able to explain the concept of metabolism Able to explain the concept of basal metabolism Be able to detail the factors that influence basal metabolic rate Able to use the Haris- Benedict formula Able to calculate basal metabolic rate based on the Haris-Benedict formula Able to calculate basal metabolic rate based on the Haris-Benedict formula Able to describe and explain the metabolic processes of carbohydrates, proteins and fats 	Criteria: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients Form of Assessment : Participatory Activities	Lecture Discussion Questions and answers 3 X 50	Material: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. Reference: <i>Bean A. 2009.</i> <i>Sports</i> <i>Nutrition.</i> <i>London: A & C</i> <i>Black</i> <i>Publishers</i> <i>Ltd.</i>	5%
6	Understand how to calculate energy needs based on SDA values and physical activity	 Able to explain Specific Dynamic Action (SDA) Able to explain physical activity and its criteria Able to determine the value of physical activity Able to analyze daily energy needs and total energy Able to calculate energy needs based on physical activity, SDA and BMR 	Criteria: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients Form of Assessment : Participatory Activities	LectureDiscussionQuestions and answersPractice 3 X 50	Material: The concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. References: <i>Moehji</i> , <i>Sjahmien.</i> 2003. Nutrition <i>Science.</i> <i>Volumes 1</i> <i>and 2. Jakarta</i> <i>: PT. Bhratara</i> <i>Niaga Media.</i>	5%
7	Understand how to calculate energy needs based on SDA values and physical activity	 Able to explain Specific Dynamic Action (SDA) Able to explain physical activity and its criteria Able to determine the value of physical activity Able to analyze daily energy needs and total energy Able to calculate energy needs based on physical activity, SDA and BMR 	Criteria: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients Form of Assessment : Participatory Activities	LectureDiscussionQuestions and answersPractice 3 X 50	Material: The concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. Reference: <i>Muchtadi D.</i> 2008. Introduction to Nutrition Science. Bandung: Alphabeta Publishers.	5%

8	UTS	Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients	Criteria: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients Form of Assessment : Participatory Activities, Tests	UTS 3 X 50	Material: The concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. Reader: <i>Irianto, Djoko</i> <i>Pekik. 2007.</i> <i>Complete</i> <i>Nutrition</i> <i>Guide for</i> <i>Families and</i> <i>Athletes.</i> <i>Yogyakarta:</i> <i>Andi Offset</i> <i>Publishers</i>	10%
9	Understand the concept of energy and energy balance	 Able to explain the concept of energy Able to calculate the energy content of food Be able to explain energy balance 	Criteria: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients Form of Assessment : Participatory Activities	LectureDiscussionQuestions and answersPractice 3 X 50	Material: The concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. Reference: <i>Muchtadi D.</i> 2008. <i>Introduction to</i> <i>Nutrition</i> <i>Science.</i> <i>Bandung:</i> <i>Alphabeta</i> <i>Publishers.</i>	5%
10	Understand the calculation of food calorific value using the 24 Hours Dietary Recall method and the List of Food Ingredient Composition and Household Measures	 Able to explain the calorific value of food Able to calculate the calorific value of food Able to carry out analysis of the 24 Hours Dietary Recall method Able to calculate the calorie value of food using the 24 Hour Dietary Recall method Able to calculate the calorie value of food using the 24 Hour Dietary Recall method Able to use the List of Food Ingredient Composition and Household Measures Able to analyze energy needs with food intake 	Criteria: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients Form of Assessment : Participatory Activities	Discussion LectureTraining on the use of URT, DKBMMethod 24 Hours Dietary Recall 3 X 50	Material: The concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. Reference: <i>Muchtadi D.</i> 2008. <i>Introduction to</i> <i>Nutrition</i> <i>Science.</i> <i>Bandung:</i> <i>Alphabeta</i> <i>Publishers.</i>	5%

11	Understand the relationship between nutrition, energy and athlete performance	Able to explain the relationship between nutrition, energy and athlete performance	Criteria: active participation Form of Assessment : Participatory Activities	Lecture Discussion Questions and answers 3 X 50	Material: The concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. Reader: <i>Irianto, Djoko</i> <i>Pekik. 2007.</i> <i>Complete</i> <i>Nutrition</i> <i>Guide for</i> <i>Families and</i> <i>Athletes.</i> <i>Yogyakarta:</i> <i>Andi Offset</i> <i>Publishers</i>	5%
12	Understand the relationship between nutrition, energy and athlete performance	Able to explain the relationship between nutrition, energy and athlete performance	Criteria: active participation Form of Assessment : Participatory Activities	Lecture Discussion Questions and answers 3 X 50	Material: The concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. Reader: <i>Irianto, Djoko</i> <i>Pekik, 2007.</i> <i>Complete</i> <i>Nutrition</i> <i>Guide for</i> <i>Families and</i> <i>Athletes.</i> <i>Yogyakarta:</i> <i>Andi Offset</i> <i>Publishers</i>	5%
13	Understand the concept of managing nutrition for achievement	 Able to explain the concept of nutritional management for achievement Able to explain the principles of meal management Able to explain meal arrangements before the match, during the match and after the match Able to evaluate food choices when in a foreign country 	Criteria: active participation Form of Assessment : Participatory Activities	Lecture Discussion Questions and answers 3 X 50	Material: The concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. Reference: <i>Bean A. 2009.</i> <i>Sports</i> <i>Nutrition.</i> <i>London: A & C</i> <i>Black</i> <i>Publishers</i> <i>Ltd.</i>	5%
14	Understanding the science of sports nutrition through problematic presentations	Able to present the science of sports nutrition through problematic presentations	Criteria: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients Form of Assessment : Participatory Activities	Discussion Presentation Questions and answers 3 X 50	Material: The concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. References: <i>Moehji</i> , <i>Sjahmien.</i> 2003. Nutrition <i>Science.</i> Volumes 1 and 2. Jakarta : PT. Bhratara Niaga Media.	5%

15	Understanding the science of sports nutrition through problematic presentations	Able to present the science of sports nutrition through problematic presentations	Criteria: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients Form of Assessment : Participatory Activities	Discussion Presentation Questions and answers 3 X 50	Material: the concept of sports nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. Reference: Bean A. 2009. Sports Nutrition. London: A & C Black Publishers Ltd.	5%
16	UAS	Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients	Criteria: Understand the concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Tests	3 X 50	Material: The concept of sports nutrition, nutrients, functions and sources of nutrients as well as the amount and adequacy of nutrients. Reference: <i>Bean A. 2009.</i> <i>Sports</i> <i>Nutrition.</i> <i>London: A & C</i> <i>Black</i> <i>Publishers</i> <i>Ltd.</i>	20%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	76.67%
2.	Project Results Assessment / Product Assessment	6.67%
3.	Portfolio Assessment	5%
4.	Test	11.67%
		100%

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 gualitative.
- 7. Forms of assessment: test and non-test.
- Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, 8. 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,
- 9 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 subtopics.
- 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.