

Universitas Negeri Surabaya Faculty of Sports and Health Sciences, Physical Education, Health & Recreation Undergraduate Study Program

Document Code

SEMESTER LEARNING PLAN

Courses		CODE			Car	Course Family			Cradit Waight			SEMESTER Compilati			nnilatia			
		CODE			Col	Course Family				Credit Weight				SEIVIE	SIER	Date		
Sports Nutrition Science			8520102054			Hea	Health				T=2	P=0	ECTS	=3.18		3	July	16, 202
AUTHORIZATION			SP Develop	ber					Co	ourse	Clus	ster C	oordina	tor	Study	Prograr	n Coo	rdinato
								Dr. dr. Endang Sri Wahjuni, M.Kes.			i,	Dr. Mochamad Ridwan, S.Pd M.Pd.						
Learning model	Project Based Lo	ect Based Learning																
Program	PLO study prog	gram tl	hat is charg	jed to	o the cou	urse												
Learning Outcomes	Program Objec	tives (PO)															
(PLO)	PO - 1	Demo	nstrate a res	ponsik	ole attitud	e towa	ds wo	ork in th	ne fielo	d of s	ports	nutriti	on inde	bender	ntly			
	PO - 2	Able to of info	o make appro	opriate data a	e decisior analysis	ns in the	e cont	ext of s	solvin	g pro	blems	s in the	e field o	f sport	s nutriti	on, base	ed on t	he resul
	PO - 3	Able to	o solve proble	ems re	elated to	sports r	nutritio	n scier	nce ar	nd ma	ake de	ecisior	ns base	d on so	cience	nce		
	PO - 4		r theoretical of formulate p					ledge a	and th	neore	tical c	concep	ots of sp	orts n	nutrition science in depth, and b			
	PLO-PO Matrix																	
	PO Matrix at th	e end o PO PO PO	P.O -1 -2 -3	1	stage (5		5	6	7	8	Wee 9	k 10				14	15	16
Short Course Description	This course will problems. Lectur questions and an	es are	conducted t	o me	asure the	e achie	vemer	nt of le	earnin	g coi	npete	encies	using	a case	study	activities approad	and ch, dis	nutrition cussion
References	Main :																	
	 Sunita Almatsier, 2003. Prinsip Dasar Ilmu Gizi. T Gramedia Pustaka Tama Jakarta Gizi Atlet Sepak Bola. www.gizi.net Gizi untuk olahraga prestasi. www.gizi.net Irianto, Djoko Pekik, 2007. Panduan Gizi Lengkap Keluarga dan Olahragawan. Yogyakarta: Andi Offset Supariasa, dkk, 2002. Pemeriksaan Status Gizi. Jakarta: EGC Penerbit Buku kedokteran 																	
	Supporters:																	

	of childho 2. Jeukendi 3. Gropper,	ood and adolescent ob rup, Asker, 2010. Sport Sareen S. and Smith,	an Byrne, Nuala M., 2007 esity, Oxon: Routledge t Nutrition-From Lab to Kit Jack L. 2013.Advanced N ioxidants in Sport Nutrition	chen, Maidenhea utrition and Hum	ad: Meyer & Meyer Sport nan Metabolism, Wadswor		Ū
Support lecturer	Faridha Nurhayat dr. Tri Putra Rahr	nad Ramadani, Sp.Ra anto, S.Kep.,Ns., M.Sc S.Pd., M.Kes.	d.				
Week-	Final abilities of each learning stage	Eva	luation	Lear Studer	lp Learning, ning methods, nt Assignments, stimated time]	Learning materials	Assessment Weight (%)
	(Sub-PO)	Indicator	Criteria & Form	Offline(offline)	Online (online)	[References]	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Able to analyze the meaning of nutrition, nutrients, sports nutrition and their scope	 Able to analyze the meaning of nutrition, nutrients and sports nutrition Able to analyze the scope of sports nutrition science 	Criteria: Oral Tests and online tests (quizziz) Form of Assessment : Participatory Activities, Tests	Case studies, lectures, discussions and questions and answers 2 X 50	Case studies, lectures, discussions through Vi- learning 2x50	Material: Understanding nutrition, nutrients and sports nutrition and their scope. Reference: Sunita Almatsier, 2003. Basic Principles of Nutrition. T Gramedia Pustaka Tama Jakarta	5%
2	Able to analyze various macronutrients and their sources	 Able to identify and analyze macronutrient elements (carbohydrates, fats and proteins) and their sources Able to analyze the function and consequences of excess and deficiency of macronutrient nutrients 	Criteria: Performance test Form of Assessment : Participatory Activities, Portfolio Assessment	Case studies, presentations, discussions and questions and answers 2 X 50	Case studies, presentations, discussions and questions and answers through Vi-learning 2 X 50	Material: Carbohydrates, Fats and Proteins Reference: Sunita Almatsier, 2003. Basic Principles of Nutrition. T Gramedia Pustaka Tama Jakarta Material: Various nutrients Reference: Irianto, Djoko Pekik, 2007. Complete Nutrition Guide for Families and Athletes. Yogyakarta: Andi Offset	5%
3	Able to analyze various micronutrients (vitamins) and their sources	 Able to analyze micronutrient elements (vitamins) and their sources Able to analyze the function and consequences of excess and deficiency of micronutrients (vitamins) 	Criteria: Performance test Form of Assessment : Participatory Activities, Portfolio Assessment	Case study, discussion, question and answer, and presentation 2 X 50	Case studies, discussions, questions and answers, and presentations via Vilearning 2 X 50	Material: Vitamins Library: Sunita Almatsier, 2003. Basic Principles of Nutrition Science. T Gramedia Pustaka Tama Jakarta Material: Various nutrients Reference: Irianto, Djoko Pekik, 2007. Complete Nutrition Guide for Families and Athletes. Yogyakarta: Andi Offset	5%

4	Able to analyze various types of micronutrients (minerals) and their sources 2.Able to analyze (minerals) and their sources 2.Able to analyze the function and consequences of excess and deficiency of		ronutrient ments merals) and r sources e to analyze function sequences excess and ciency of		Case studies, discussions, questions and answers, and presentations via Vi- learning 2 X 50	Material: Minerals Reference: Sunita Almatsier, 2003. Basic Principles of Nutrition. T Gramedia Pustaka Tama Jakarta	5%
		micronutrients (minerals)				Material: Various Nutrients Reference: Irianto, Djoko Pekik, 2007. Complete Nutrition Guide for Families and Athletes. Yogyakarta: Andi Offset	
5	Able to analyze nutritional needs	 Identify nutritional elements and their sources identify the function and consequences of excess and deficiency of nutrients 	Criteria: Oral Tests and online tests (quizziz) Form of Assessment : Participatory Activities, Tests	Case study, discussion and questions and answers 2 X 50	Case studies, discussions and questions and answers through Vi-learning 2 X 50	Material: Nutrient Needs References: Irianto, Djoko Pekik, 2007. Complete Nutrition Guide for Families and Athletes. Yogyakarta: Andi Offset	5%
						Material: Nutritional Requirements Reference: Nutrition for sports performance. www.gizi.net	
6	Able to analyze the process of food digestion and absorption of nutrients	 Able to analyze the process of digestion of carbohydrates, fats and proteins Able to analyze the process of absorption of carbohydrates, fats and proteins 	Criteria: Oral Tests and online tests (quizziz) Form of Assessment : Participatory Activities, Tests	Case study, discussion and questions and answers 2 X 50	Case studies, discussions and questions and answers through Vi-learning 2 X 50	Material: Food Digestion Bibliography: Sunita Almatsier, 2003. Basic Principles of Nutrition Science. T Gramedia Pustaka Tama Jakarta	5%
7	Able to analyze metabolic processes and excretion of nutrients	 Able to analyze the metabolic processes of nutrients Able to analyze the process of nutrient excretion 	Criteria: Oral Tests and online tests (quizziz) Form of Assessment : Participatory Activities, Tests	Case study, discussion and questions and answers 2 X 50	Case studies, discussions and questions and answers through Vi-learning 2 X 50	Material: Metabolism and excretion of nutrients Reference: <i>Sunita</i> <i>Almatsier,</i> 2003. Basic <i>Principles of</i> <i>Nutrition.</i> T <i>Gramedia</i> <i>Pustaka Tama</i> <i>Jakarta</i>	5%
						Material: Metabolism and excretion of nutrients Reference: Nutrition for sports performance. www.gizi.net	

8	UTS	 Able to analyze the meaning and scope of sports nutrition Able to analyze macro nutrients and micro nutrients Able to analyze nutritional needs Able to analyze the process of digestion and absorption of nutrients Able to analyze metabolic processes and excretion of nutrients 	Criteria: Written test Form of Assessment : Participatory Activities, Tests	Case study 2 X 50	Case study via vi- learning 2 X 50	Material: Scope of Nutrition Science Literature: Sunita Almatsier, 2003. Basic Principles of Nutrition Science. T Gramedia Pustaka Tama Jakarta Material: Science of Sports Nutrition, Nutrition and Nutrition and Nutrition and Nutrition, Djoko Pekik, 2007. Complete Nutrition Guide for Families and Athletes. Yogyakarta: Andi Offset	10%
9	Able to apply and analyze methods for measuring nutritional status	 Able to analyze how to measure nutritional status Able to analyze how to use anthropometric indices 	Criteria: Performance test Form of Assessment : Participatory Activities, Practice/Performance	Case study, discussion, questions and answers and assignments 2 X 50	Case studies, discussions, questions and answers and assignments through Vi-learning 2 X 50	Material: Measuring Nutritional Status Reference: Supariasa, et al, 2002. Examination of Nutritional Status. Jakarta: EGC Medical Book Publisher	5%
10	Able to apply and analyze the results of measuring nutritional status	 Able to apply nutritional status measurements Able to analyze the results of nutritional status measurements 	Criteria: Performance test Form of Assessment : Participatory Activities, Practice/Performance	Case study, discussion, questions and answers and assignments 2 X 50	Case studies, discussions, questions and answers and assignments through Vi-learning 2 X 50	Material: Measuring Nutritional Status Reference: Supariasa, et al, 2002. Examination of Nutritional Status. Jakarta: EGC Medical Book Publisher	5%
11	Able to apply and analyze the role of nutrition for developing sports achievements	 Able to identify energy calculation components Able to carry out energy calculations 	Criteria: Performance test Form of Assessment : Participatory Activities, Practice/Performance	Case Study, discussion, questions and answers and assignments 2 X 50	Case Study, discussion, questions and answers and assignments via Vi- learning 2 X 50	Material: Calculation of Energy Requirements Reference: Nutrition for sports performance. www.gizi.net Material: Calculation of Energy Needs Reference: Nutrition for Football Athletes. www.gizi.net	5%
12	Able to apply and analyze the role of nutrition for developing sports achievements	 Able to identify components of menu preparation Able to analyze energy calculation results Able to arrange a food menu according to energy needs 	Criteria: Oral test Form of Assessment : Participatory Activities	Case study, discussion, questions and answers and assignments 2 X 50	Case studies, discussions, questions and answers and assignments through Vi-learning 2 X 50	Material: Preparation of Bibliographic Menus: Nutrition for sports achievements. www.gizi.net Material: Preparing a Library Menu: Nutrition for Football Athletes. www.gizi.net	5%

13	Able to apply and analyze the role of nutrition for developing sports achievements	 Able to analyze athletes' food arrangements during training Able to analyze athletes' food arrangements during competitions Able to analyze athletes' food arrangements during the recovery period 	Criteria: Performance test Form of Assessment : Participatory Activities	Case study, discussion, questions and answers and assignments 2 X 50	Case studies, discussions, questions and answers and assignments through Vi-learning 2 X 50	Material: Eating arrangements before, during and after competition. Reference: Nutrition for sports performance. www.gizi.net	5%
14	Able to analyze the impact of food, drinks and supplements on physical performance	 Able to analyze the reasons for using supplements Able to analyze various types of food, drinks and supplements, and their impact on physical performance 	Criteria: Oral Tests and online tests (quizziz) Form of Assessment : Participatory Activities	Case study, discussion and questions and answers 2 X 50	Case studies, discussions and questions and answers through Vi-learning 2 X 50	Material: The Impact of Food, Drinks and Supplements on Physical Performance References: <i>Irianto, Djoko</i> <i>Pekik, 2007.</i> <i>Complete</i> <i>Nutrition Guide</i> <i>for Families</i> <i>and Athletes.</i> <i>Yogyakarta:</i> <i>Andi Offset</i>	5%
15	Able to identify and analyze nutritional problems in Indonesia and athlete nutritional problems	 Able to identify and analyze nutritional problems in Indonesia Able to identify and analyze nutritional problems in athletes 	Criteria: Oral Tests and online tests (quizziz) Form of Assessment : Participatory Activities	Case study, discussion and questions and answers 2 X 50	Case studies, discussions and questions and answers through Vi-learning 2X50	Material: Nutritional Problems Bibliography: Sunita Almatsier, 2003. Basic Principles of Nutritional Science. T Gramedia Pustaka Tama Jakarta Material: Nutritional Problems for Athletes References: Irianto, Djoko Pekik, 2007. Complete Nutrition Guide for Families and Athletes. Yogyakarta: Andi Offset	5%

16	UAS	4					
		 Able to apply and analyze methods for measuring nutritional status Able to apply and analyze the role of nutrition for developing sports achievements Able to analyze the impact of food, drinks and supplements on physical performance Able to identify and analyze nutritional problems in Indonesia and in athletes 	Criteria: Written test Form of Assessment : Participatory Activities, Tests	Case study 2 X 50	Case study via Vi- learning 2 X 50	Material: Nutritional Problems Bibliography: Sunita Almatsier, 2003. Basic Principles of Nutritional Science. T Gramedia Pustaka Tama Jakarta Material: Athletes' Nutrition Problems Reference: Nutrition for sports performance. www.gizi.net Material: Calculating Energy Requirements, Preparing Menus and Arranging Meals Before, During and After Competing Literature: Nutrition for Sports Performance. www.gizi.net Material: Calculating Energy Requirements, Preparing Menus and After Competing Literature: Nutrition for Sports Performance. www.gizi.net	20%
						After Competing	

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	60%
2.	Portfolio Assessment	7.5%
3.	Practice / Performance	7.5%
4.	Test	25%
		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 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.