

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

Document Code

SEMESTER LEARNING PLAN

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Courses			CODE				Co	urse	Famil	ly		Crea	lit We	ight	S	SEMES	TER	Compilation Date
Nutrition in th	ne Life Cycle		132110303	7					sory S I Subj			T=0	P=0	ECTS=	:0	2	1	August 22, 2022
AUTHORIZAT	ION		SP Develo	per							Cours				5	Study F	Program	n Coordinator
			Choirul Anr Ruhana, Sl S.Gz., M.S	P., M	PH.; C						Choirul Anna Nur Afifah, S.Pd., M.Si.			,	Amalia Ruhana, S.P., M.P.H		a, S.P., M.P.H.	
Learning model	Project Based L	earnin	g															
Program	PLO study pro	gram t	hat is char	ged	to the	e cou	ırse											
Learning Outcomes	PLO-6	Able t	o utilize scie	nce a	Ind te	chnol	ogy ii	n self	-deve	lopm	nent an	d solv	ing nu	tritional	prob	lems.		
(PLO)	PLO-8	Able t	o master the	scier	ntific l	oasis	of nu	trition	i, food	l, bic	medic	ine, hı	umanit	ies and	oubli	c healt	h scien	ces.
	PLO-9		o have an at al insight, an						hty G	od, l	oe ethi	cal, di	sciplin	ed, awaı	e of	the lav	v, have	a social and
	Program Object	tives ((PO)															
	PO - 1		stand the concept of growth and development, need and adequacy of nutrients in various human li irth to old age according to recommendations						man life cycles,									
	PO - 2	Analyz	ze nutritional problems and causal factors in various human life cycles															
	PO - 3	Able to	to study interventions and overcoming nutritional problems based on the concept of life cycle nutrition							utrition								
	PLO-PO Matrix	[
			P.0	P.O PLO-6 P			PLO-	8		PLC)-9							
			PO-1															
			PO-2															
			PO-3															
	DO MALÉ ANI		. f h . l															
	PO Matrix at th	e ena	of each lea	rning	g sta	ge (S	SUD-H	-0)										
			DO									Wee	L					
			P.0	1	2	3		-	6	-		9		11	10	10	14	15 10
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15 16
		PC																
		PC																
		PC)-3															
Short Course Description	during pregnanc according to the overcome nutrition	y, brea life cycl onal pro	ses the relationship between nutrition and the life cycle, scope, factors that influence life cycle nutrition startin breastfeeding, infancy and toddlerhood, adolescence, adulthood to old age, human growth and developmer cycle, nutritional needs in each period life, nutritional problems, influencing factors, and designing interventions t al problems using the concept of life cycle nutrition. The learning model uses problem based learning. Learnin d out through discussion and assignment learning experiences.							d development interventions to								
References	Main :																	
	 Pritasari Brown, J Afifah C 	 Arisman, MB. 2009. Gizi Dalam Daur Kehidupan. Jakarta :EGC. Pritasari, Damayanti D, Lestari NT. 2017. Gizi dalam Daur Kehidupan. Pusat Pendidikan Sumber Daya Manusia Kesehata Brown, Judith E. 2011. Nutrition Through Life Cycle. Wadsworth Cengage Learning, USA Afifah CAN, Ruhana A, Dini CY, Pratama SA. 2021. Gizi dalam Daur Kehidupan, Buku Ajar bagi Mahasiswa Program St S1 Gizi UNESA. Surabaya: UNESA University Press 																
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		 Dieny,F, Fikawati, Fitri, Ime Hardinsy 	Rahadiyanti, A, dan k Sandra, dkk. 2017. G Ida dan Wiji, Rizki Na ah, IM Supariasa. 201	sar Ilmu Gizi. Jakarta :Gra Kurniawati, DM. 2019. Gizi Sizi Anak dan Remaja. PT. tia. 2017. Buku Ajar Gizi R 17. Ilmu Gizi: Teori dan Apl tentang Pedoman Gizi Sei	Prakonsepsi. Rajagrafindo eproduksi dai ikasi. EGC Ja	Jakarta: Penerbit Bum Persada: Jakarta n Bukti. Gosyen Publis		
Suppor lecturer		Amalia Ruhana, S Cleonara Yanuar Lini Anisfatus Sho Fitriana Nugraher	Dini, S.Gz., Dietisien, olihah, S.Gz., M.Sc.					
Week-		al abilities of ch learning	Eva	aluation	Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials	Assessmen Weight (%)
		ib-PO)	Indicator	Criteria & Form	Offline (offline)	Online (online)	[References]	ireigit (70)
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	CC	nderstand the incept of nutrition the life cycle	 Explain the relationship between nutrition and the life cycle Explain the scope of nutrition in the life cycle Describe the factors that influence nutrition in the life cycle 	Criteria: Understand the concept of nutrition in the life cycle correctly Form of Assessment : Participatory Activities		Lectures, discussions and answers 3 X 50	Material: The relationship between nutrition and the life cycle Readers: Afifah CAN, Ruhana A, Dini CY, Pratama SA. 2021. Nutrition in the Life Cycle, Textbook for UNESA Nutrition Undergraduate Study Program Students. Surabaya: UNESA University Press Material: The concept of cycle nutrition. References: Pritasari, Damayanti D, Lestari NT. 2017. Nutrition in the Life Cycle. Health Human Resources Education Center Material: Human nutritional needs Reference: Almatsier, S. 2001. Basic Principles of Nutrition Science. Jakarta: Gramedia Pustaka Utama.	2%

	1	1	1		
2	Understanding nutrition during pregnancy	 Identify changes in pregnancy physiology Explain the relationship between nutrition and fetal growth Describe the nutritional needs of pregnant women Describe nutritional disorders and problems in pregnant women Determine the principles of balanced nutrition for pregnant women 	Criteria: Understand the principles of nutrition for pregnant women Form of Assessment : Participatory Activities	Lectures, grou discussions, au questions and answers 3 X 50	3%

3	Understanding nutrition during breastfeeding	 Explain the physiology of lactation (milk secretion) Comparing the nutritional composition of breast milk and formula milk Determine the nutritional needs of breastfeeding mothers Describe the factors that influence breast milk production Determine the principles of balanced nutrition for breastfeeding mothers 	Criteria: Understand the principles of nutrition for breastfeeding mothers Form of Assessment : Participatory Activities	Lectures, group discussions, and answers 3 X 50	Material: Physiology of lactation References: Afifah CAN, Ruhana A, Dini CY, Pratama SA. 2021. Nutrition in the Life Cycle, Textbook for UNESA Nutrition Undergraduate Study Program Students. Surabaya: UNESA University Press Material: Nutritional needs of breastfeeding mothers References: Pritasari, Damayanti D, Lestari NT. 2017. Nutrition in the Life Cycle. Health Human Resources Education Center Material: Balanced nutrition for breastfeeding mothers References: Education Center Material: Balanced nutrition for breastfeeding mothers Reference: Minister of Health Regulation no. 41 of 2014 concerning Guidelines for Balanced Nutrition	3%
4	Understanding the role of nutrition in infancy (0 – 6 months)	 Explaining Exclusive Breastfeeding Explain the nutritional needs of babies (0-6 months) Describes ASIP management 	Criteria: Understand the concept of nutrition for babies 0-6 months Form of Assessment : Participatory Activities	Lectures, group discussions, and questions and answers 3 X 50	Material: ASIP Management Reader: Afifah CAN, Ruhana A, Dini CY, Pratama SA. 2021. Nutrition in the Life Cycle, Textbook for UNESA Nutrition Undergraduate Study Program Students. Surabaya: UNESA University Press Material: Nutritional needs for babies Reference: Brown, Judith E. 2011. Nutrition Through Life Cycle. Wadsworth Cengage Learning, USA	3%

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5	Understanding the role of nutrition during the toddler years (6 – 24 months)	 Describes the growth and development of clowns Determining the Nutritional Needs of Baduta (6 months – 24 months) Describes the principles of MPASI and the principles of providing ASIP MPASI Explaining the Nutritional Problems of Exclusive Breastfeeding Ambassadors 	Criteria: Understand the principles of MPASI for toddlers Form of Assessment : Participatory Activities, Practice/Performance	Lectures, group discussions, and questions and answers 3 X 50	Material: Baby growth and development References: Afifah CAN, Ruhana A, Dini CY, Pratama SA. 2021. Nutrition in the Life Cycle, Textbook for UNESA Nutrition Undergraduate Study Program Students. Surabaya: UNESA University Press Material: Nutritional needs of clowns Reader: Pritasari, Damayanti D, Lestari NT. 2017. Nutrition in the Life Cycle. Health Human Resources Education Center Material: Baduta's balanced nutrition Reference: Minister of Health Regulation no. 41 of 2014 concerning Guidelines for Balanced Nutrition	10%

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6	Understanding the role of nutrition during the toddler years (6 – 24 months)	 Describes the growth and development of clowns Determining the Nutritional Needs of Baduta (6 months – 24 months) Describes the principles of MPASI and the principles of providing ASIP MPASI Explaining the Nutritional Problems of 	Criteria: Understand the principles of MPASI for toddlers Form of Assessment : Participatory Activities, Portfolio Assessment	Lectures, discussions, questions and answers	Lectures, group discussions, and questions and answers 3 X 50	Material: Baby growth and development References: Affiah CAN, Ruhana A, Dini CY, Pratama SA. 2021. Nutrition in the Life Cycle, Textbook for UNESA Nutrition Undergraduate Study Program Students. Surabaya: UNESA University Press	3%
		Exclusive Breastfeeding Ambassadors				Material: Nutritional needs of clowns Reader: Pritasari, Damayanti D, Lestari NT. 2017. Nutrition in the Life Cycle. Health Human Resources Education Center	
						Material: Baduta's balanced nutrition Reference: Minister of Health Regulation no. 41 of 2014 concerning Guidelines for Balanced Nutrition	
						Material: Nutritional problems for toddlers. Reference: Hardinsyah, IM Supariasa. 2017. Nutrition Science: Theory and Applications. EGC Jakarta	

7	Describe the nutritional problems of toddlers (6-24 months)	 Describe the growth and development of toddlers Determining the Nutritional Needs of Toddlers (>2 years - 5 years) Describes the principles of balanced nutrition for toddlers Explaining Toddler Nutrition Problems 	Criteria: Understanding toddler nutritional problems Form of Assessment : Participatory Activities	MCQs	Lectures, group discussions, and questions and answers 3 X 50	Material: Nutritional problems for toddlers. Reference: Hardinsyah, IM Supariasa. 2017. Nutrition Science: Theory and Applications. EGC Jakarta Material: Balanced nutrition for toddlers Reference: Minister of Health Regulation no. 41 of 2014 concerning Guidelines for Balanced Nutrition Material: Nutritional needs of toddlers Reference: Brown, Judith E. 2011. Nutrition Through Life Cycle. Wadsworth Cengage Learning, USA Material: Nutritional status of toddlers References: Afifah CAN, Ruhana A, Dini CY, Pratama SA. 2021. Nutrition in the Life Cycle, Textbook for UNESA Nutrition Undergraduate Study Program Students. Surabaya: UNESA	5%
			All correct answers get a score of 100 Form of Assessment : Test		3 X 50 multiple choice test		

role	derstanding the e of nutrition in	1.Explain the	Criteria:	Lectures, group	Material:	5%
chile	hool-aged lidren	growth and development of school age children 2.Determine the nutritional needs of school-aged children 3.Identifying factors that influence the nutritional intake of school-aged children 4.Applying the principles of balanced nutrition to school-aged children 5.Identifying nutritional problems in school-aged children	Understand the principles of nutrition for school-aged children Form of Assessment : Participatory Activities, Tests	discussions, and questions and answers 3 X 50	Nutritional needs of school-age children References: Afifah CAN, Ruhana A, Dini CY, Pratama SA. 2021. Nutrition in the Life Cycle, Textbook for UNESA Nutrition Undergraduate Study Program Students. Surabaya: UNESA UNIVERSA UNI	
					Balanced Nutrition	

	1					
10	Understanding the	1.Explain the	Criteria:	Lectures, group	Material:	10%
	role of nutrition in	growth and	Prepare a balanced	discussions, and	Nutritional	
	school-aged		nutritional menu for	questions and	needs of	
	children	development	children appropriately	answers	school-age	
	1	of school age				
	1	children	Form of Assessment :	3 X 50	children	
	1	2.Determine the	Participatory Activities,		References:	
		nutritional	Practice/Performance		Afifah CAN,	
			Fractice/Performance		Ruhana A, Dini	
		needs of			CY, Pratama	
		school-aged			SA. 2021.	
		children			Nutrition in the	
		3.Identifying				
		, ,			Life Cycle,	
		factors that			Textbook for	
		influence the			UNESA	
		nutritional			Nutrition	
		intake of			Undergraduate	
		school-aged			Study Program	
		children			Students.	
	1	4.Applying the			Surabaya:	
	1	principles of			UNESĂ	
	1				University	
	1	balanced			Press	
		nutrition to the			1-1000	
	1	lunch menu for			pr	
		school-aged			Material: Child	
	1				growth and	
	1	children			development	
	1	5.Identifying			References:	
		nutritional				
	1	problems in			Fikawati,	
	1				Sandra, et al.	
		school-aged			2017. Nutrition	
	1	children			for Children	
					and	
	1					
	1				Adolescents.	
	1				PT.	
	1				Rajagrafindo	
					Persada:	
	1				Jakarta	
	1				Janaila	
					Material:	
	1				Children's	
					nutritional	
	1				problems	
	1					
	1				Reference:	
					Arisman, MB.	
					2009. Nutrition	
					in the Life	
					Cycle. Jakarta	
	1				:EGC.	
					.200.	
	1				P	
	1				Material:	
					Balanced	
	1				nutrition for	
	1					
	1				children	
	1				Reference:	
	1				Minister of	
					Health	
	1				Regulation no.	
	1					
					41 of 2014	
	1				concerning	
	1				Guidelines for	
					Balanced	
					Nutrition	

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11	Understanding the role of nutrition in	1.Explain the	Criteria:	Lectures, group	Material:	2%
	adolescence	definition of	Understand the	discussions, and	Adolescent	
	adolescence	teenager	concept of nutrition and nutritional	questions and	growth and	
			and nutritional	answers	development	
		2.Describe the	problems in	3 X 50	References:	
		growth and	adolescents	5 X 50		
		development			Afifah CAN,	
		of adolescents	Form of Assessment :		Ruhana A, Dini	
			Participatory Activities		CY, Pratama	
		3.Determining	r antoipatory / touvineo		SA. 2021.	
		the nutritional			Nutrition in the	
		needs of			Life Cycle,	
		adolescents				
					Textbook for	
		Describes the			UNESA	
		principles of			Nutrition	
		balanced			Undergraduate	
		nutrition in			Study Program	
					Students.	
		adolescents				
		5.Identifying			Surabaya:	
		adolescent			UNESA	
		nutritional			University	
					Press	
		problems				
					Material:	
					Nutritional	
1					needs of	
					adolescents	
					References:	
					Fikawati,	
					Sandra, et al.	
					2017. Nutrition	
					for Children	
1						
1					and	
					Adolescents.	
1					PT.	
					Rajagrafindo	
					Persada:	
					Jakarta	
1					Material:	
					Adolescent	
					nutritional	
					problems	
					Reference:	
					Brown, Judith	
					E. 2011.	
					Nutrition	
					Through Life	
					Cycle.	
					Wadsworth	
					Cengage	
					Learning, USA	
					, ooA	
					Material:	
					Balanced	
					nutrition for	
					teenagers	
					Reference:	
					Minister of	
					Health	
					Regulation no.	
					41 of 2014	
					concerning	
					Guidelines for	
					Balanced	
					Nutrition	
			1			

12	Understanding the role of nutrition in adolescence	 Explain the concept of preconception nutrition Determining nutritional needs in the preconception period Identify nutritional problems in the 	Criteria: Understand the concept of preconception nutrition Form of Assessment : Participatory Activities	Lectures, group discussions, and questions and answers 3 X 50	Material: Nutritional needs of adolescents References: Fikawati, Sandra, et al. 2017. Nutrition for Children and Adolescents. PT. Rajagrafindo Persada:	2%
		preconception period and the factors that influence them			Jakarta Material: Adolescent nutritional problems Reference: Brown, Judith E. 2011. Nutrition Through Life Cycle. Wadsworth Cengage Learning, USA	
					Material: Concept of preconception nutrition References: Dieny, F, Rahadiyanti, A, and Kurniawati, DM. 2019. Preconception Nutrition. Jakarta: Bumi Medika Publishers.	

13	Understand the role of nutrition in adulthood	 Explain the definition of adulthood Determine nutritional needs in adulthood Outlines the principles of balanced nutrition for adults Identify nutritional problems in adulthood and the factors that influence them 	Criteria: Understand the principles of nutrition in adulthood and its problems Form of Assessment : Participatory Activities		Lectures, group discussions, and questions and answers 3 X 50	Material: Adult physiology Reference: Brown, Judith E. 2011. Nutrition Through Life Cycle. Wadsworth Cengage Learning, USA Material: Adult nutritional needs References: Afifah CAN, Ruhana A, Dini CY, Pratama SA. 2021. Nutrition in the Life Cycle, Textbook for UNESA Nutrition Undergraduate Study Program Students. Surabaya: UNESA University Press Material: Balanced nutrition messages for adults Reference: Minister of Health Regulation no. 41 of 2014 concerning Guidelines for Balanced Nutrition	2%
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14	Understand the role of nutrition in the elderly	1.Explain physiological changes in the elderly 2.Determining nutritional needs in the elderly 3.Describes the principles of balanced nutrition in the	Criteria: Understand the principles of elderly nutrition and its problems Form of Assessment : Participatory Activities	(((Lectures, group discussions, and questions and answers 3 X 50	Material: Physiology of the elderly Reference: Brown, Judith E. 2011. Nutrition Through Life Cycle. Wadsworth Cengage Learning, USA	5%
		elderly 4.Identify problems related to elderly nutrition 5.Describe degenerative disease disorders in elderly adults				Material: Definition of elderly References: Afifah CAN, Ruhana A, Dini CY, Pratama SA. 2021. Nutrition in the Life Cycle, Textbook for UNESA Nutrition Undergraduate Study Program Sturabaya: UNESA University Press	
						Material: Balanced nutrition for the elderly Reference: Minister of Health Regulation no. 41 of 2014 concerning Guidelines for Balanced Nutrition	

15	Able to analyze metabolic syndrome disorders and degenerative diseases in adults and the elderly	 Describe metabolic syndrome and its effects Analyzing the causes of obesity in adults Describes hyperlidemia and atherosclerosis Examining nutritional interventions for diabetes mellitus 	Criteria: Understanding metabolic syndrome disease in adults and the elderly Form of Assessment : Participatory Activities		Group discussion, and question and answer 3 X 50	Material: Physiology of the elderly Reference: Brown, Judith E. 2011. Nutrition Through Life Cycle. Wadsworth Cengage Learning, USA Material: Balanced nutrition for the elderly Reference: Minister of Health Regulation no. 41 of 2014 concerning Guidelines for Balanced Nutrition Material: Degenerative diseases References: Afifah CAN, Ruhana A, Dini CY, Pratama SA. 2021. Nutrition in the Life Cycle, Textbook for UNESA Nutrition Undergraduate Students. Surabaya: UNESA University Press	2004
16			Form of Assessment : Test	MCQs	3 X 50 multiple choice test	Material: Final Semester Exam Literature:	20%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage		
1.	Participatory Activities	51%		
2.	Portfolio Assessment	1.5%		
3.	Practice / Performance	10%		
4.	Test	37.5%		
		100%		

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.
- 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** abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities 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.