

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

Document Code

SEMESTER LEARNING PLAN

Basic Nutritio			CODE				Course Family Credit Weight			SEME	STER	Cor Dat	mpilat te						
	on Science		132110300)3			Co	mpuls	Sup	Study		T=0	P=0	ECT	S=0		1	July	/ 17, 2
AUTHORIZAT	TION		SP Develo	per				gram	Cubj	0010	Cours Coord	e Clus linator	ster			Study	Progra	am Co	ordina
			Dr. Rita Isr Dini, S.Gz, S.Gz, M.S M.PH., Ph	mawat M.Sc c. Noc D.	ti, M.k , RD or Roh	Kes. C Satw nmah	Cleona rika A Maya	ara Ya rya Pr Isari, S	nuar atam S.TP.	a,	Dr. Rit	a Isma	awati,	M.Kes	5.	Amalia	a Ruha	na, S.F	^{.,} M.F
Learning model	Case Studies																		
Program	PLO study pr	ogram ti	am that is charged to the course																
Learning Outcomes	PLO-9	Able to	o have an a	ttitude	of be	elief in	the A	Almigh	nty Go	od, b	e ethica	I, disc	iplinec	l, awa	re of t	he law,	have	a socia	al and
(PLO)	PLO-11	Able to	al insight, ar	nd ber blems	iave p	field	siona of nu	lly. trition	by ap	oplyir	ng scien	tific th	inking	conce	epts a	nd cutti	ng-edg	je appi	roache
	Due une un Ohi	throug	n research,	scien	tific III	teracy	/ and	public	ation	S.									
	Program Obj	ectives (90)							<i>.</i> .						1			
	PO - 1	Able to scienc) formulate e	proble	ems ir	n mar	naging	g nutri	tious	food	using o	concep	ots, ex	ample	es and	l proce	dures i	n Bası	c Nutr
	PO - 2	Able t nutritio	o master k ius food	nowle	dge a	about	cond	cepts,	exar	nple	s and p	oroceo	ures	of Ba	sic N	utrition	sciend	ce for	mana
	PO - 3	Able to	o design nut	ritious	food	mana	agem	ent us	ing k	nowl	edge of	Basic	Nutrit	ion sc	ience				
	PO - 4	Able to	Able to be responsible for designing nutritious food management that utilizes Basic Nutrition knowledge																
	PLO-PO Matr	ix																	
			P.O PO-1 PO-2 PO-3 PO-4		PL	0-9		P	LO-1	1	-								
	PO Matrix at	the end o	of each lea	rning	g stag	ge (S	ub-P	0)											
				1															
			P.0					-	0	-		Week	10		4.0	10		45	10
		PO		1	2	3	4	5	6	(8	9	10	11	12	13	14	15	10
		PO	-2								+								
		PO	-3	-				-					+						
		PO	-4								+								
	This course di	scusses o	oncepts. The scussions a	ne ma nd as	iterial signm	in thi ents.	is lec	ture a	llso ir	nclud	es: Acti	vities	in this	cour	se are	e carrie	d out	throug	h learr
Short Course Description	experiences, le	ectures, dis																	
Short Course Description	experiences, le	ctures, di	[
Short Course Description References	Main :	ctures, di																	
Short Course Description References	Main :	ctures, di																	
Short Course Description References	Main :	ctures, di																	

	 Almatsie Hardins Peratura Bangsa Mahan I Setyawa 	er, S. 2002. F yah & Supari an Menteri k Indonesia _K & Sylvia E ati, VAV, dan	Prinsip Dasa iasa, I.D.N. Kesehatan ES. 2011. K Martini, Ek	ar Ilmu Gizi. Gramedia Pu 2017. Ilmu Gizi: Teori dar Republik IndonesiaNo 75 rause's Food & the Nutriti o. 2018. Buku Ajar Dasar	staka Utama, Ja Aplikasi. EGC, tahun 2013 te on Care Process Ilmu Gizi Keseh	karta Jakarta ntang Angka Kecukup s 13th Edition. Philadel atan Masyarakat. Dee	pan Gizi yang Di Iphia: W.B Saund publish	anjurkan Bagi Iers Company.
	Supporters:							
Support lecturer	ting Prof. Dr. Rita Isn Cleonara Yanua Satwika Arya Pra	nawati, S.Pd r Dini, S.Gz., atama, S.Gz	I., M.Kes. , Dietisien, , M.Sc.	M.Sc.				
Week-	Final abilities of each learning stage		Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation				Learning materials References	Assessment Weight (%)
	(Sub-PO)	Indic	cator	Criteria & Form	Offline (offline)	Online (<i>online</i>)	1	
(1)	(2)	(3	3)	(4)	(5)	(6)	(7)	(8)
1	Understand the RPS and carry out lecture contracts. Understand the meaning and concepts of nutritional science	1.Carry study 2.Expla mean conce nutriti scien 3.Expla conce balan nutriti	/ out a / contract ain the hing and epts of ional ce ain the ept of aced ion	Criteria: Objective test form Form of Assessment : Participatory Activities	Learning Method: Lecture, Question and Answer, Discussion 3 X 50		Material: Introduction to nutrition Bibliography: Almatsier, S. 2002. Basic principles of nutrition. Gramedia Pustaka Utama, Jakarta Material: introduction to nutrition Bibliography: Hardinsyah & Supariasa, IDN 2017. Nutrition Science: Theory and Application. EGC, Jakarta Material: RPS Basic Nutrition Science Literature:	0%

2	Understand the meaning and concept of energy in nutritional science	1.Explain the meaning of energy 2.Explain the concept of energy requirements 3.Explain and calculate daily energy needs 4.Explain the effects of	Criteria: 1.Objective test form 2.Task-1: Calculate Daily Energy Requirements Form of Assessment : Participatory Activities	Learning Method: Lecture, Question and Answer, Discussion, 3 X 50 assignments	Material: Energy Reference: Almatsier, S. 2002. Basic Principles of Nutrition Science. Gramedia Pustaka Utama, Jakarta	5%
		excess and lack of energy			Material: Energy Library: Hardinsyah & Supariasa, IDN 2017. Nutrition Science: Theory and Application. EGC, Jakarta Material: energy	
					References: Mahan LK & Sylvia ES. 2011. Krause's Food & the Nutrition Care Process 13th Edition. Philadelphia: WB Saunders Company. Material:	
					energy References: Setyawati, VAV, and Hartini, Eko. 2018. Basic Textbook of Public Health Nutrition Science. Deepublish	

3	Understand the meaning and concept of carbohydrates in nutritional science	 Explain the meaning of carbohydrates Explain the types of carbohydrates Explain examples of food sources of carbohydrates Explain the impact of excess and lack of carbohydrates 	Criteria: 1.Objective test form 2.Task-2: Identify food sources of carbohydrates Form of Assessment : Participatory Activities	Lectures, Questions and Answers, Discussions, and 3 X 50 assignments	Material: Carbohydrates Reference: Almatsier, S. 2002. Basic Principles of Nutrition Science. Gramedia Pustaka Utama, Jakarta Material: Carbohydrates Library: Hardinsyah & Supariasa, IDN 2017. Nutrition Science: Theory and Application. EGC, Jakarta Material: Carbohydrates Reference: Mahan LK & Sylvia ES. 2011. Krause's Food & the Nutrition Care Process 13th Edition. Philadelphia: WB Saunders Company. Material: Carbohydrates References: Setyawati, VAV, and Hartini, Eko. 2018. Basic Textbook of Public Health Nutrition Science.	0%
					VAV, and Hartini, Eko. 2018. Basic Textbook of Public Health Nutrition Science. Deepublish	

4	Understand the meaning and concept of fat in nutritional science	 Explain the meaning of fat Explain the types of fat Explain examples of food sources of fat Explain the impact of excess and lack of fat 	Criteria: 1.Objective test 2.Task-3: Identify food sources of fat Form of Assessment : Participatory Activities	Lectures, Questions and Answers, Discussions and Assignments 3 X 50	Material: FatReference:Almatsier, S.2002. BasicPrinciples ofNutritionScience.GramediaPustakaUtama,JakartaMaterial: FatLibrary:Hardinsyah &Supariasa,IDN 2017.NutritionScience:Theory andApplication.EGC, JakartaMaterial: FatBibliographyMahan LK &Sylvia ES.2011.Krause's Foo& the NutritionCare Process13th Edition.Philadelphia:WB SaundersCompany.Material: FatLiterature:Setyawati,VAV, andHartini, Eko.2018. BasicTextbook ofPublic HealthNutrition	s 0%
					Textbook of Public Health Nutrition Science. Deepublish	

5	Understand the meaning and concept of protein in nutritional science	 1.1. Explain the meaning of protein 2.2. Explain the types of protein 3.3. Explain examples of food sources of protein 4.4. Explain the impact of excess and deficiency of protein 	Criteria: 1.objective test 2.Task-4: Identify food sources of protein	Lectures, Questions and Answers, Discussions and Assignments 3 X 50	Material: Protein Reference: Almatsier, S. 2002. Basic Principles of Nutrition Science. Gramedia Pustaka Utama, Jakarta Material: Protein Library: Hardinsyah & Supariasa, IDN 2017. Nutrition Science: Theory and Application. EGC, Jakarta Material: protein References: Mahan LK & Sylvia ES. 2011. Krause's Food & the Nutrition Care Process 13th Edition. Philadelphia: WB Saunders Company. Material: Protein References: Mahan LK & Sylvia ES. 2011. Krause's Food & the Nutrition Care Process 13th Edition. Philadelphia: WB Saunders Company. Material: Protein Library: Setyawati, VAV, and Hartini, Eko. 2018. Basic Textbook of Public Health Nutrition Science. Deepublish	10%
6	Understand the meaning and concept of vitamins in nutritional science	 Explain the meaning of vitamins Explain the types of vitamins Explain examples of food sources of vitamins Explain the effects of excess and deficiency of vitamins 	Criteria: 1.Objective test 2.Task-5: Identify food sources of vitamins Form of Assessment : Participatory Activities	Lectures, Questions and Answers, Discussions and Assignments 3 X 50	Material: Vitamins Reference: Almatsier, S. 2002. Basic Principles of Nutrition Science. Gramedia Pustaka Utama, Jakarta Material: Vitamins Library: Hardinsyah & Supariasa, IDN 2017. Nutrition Science: Theory and Application. EGC, Jakarta	100%

7	Understand the meaning and concept of minerals in nutritional science	 Explain the meaning of minerals Explain the types of minerals Explain examples of food sources of minerals Explain the impact of excess and deficiency of minerals 	Criteria: 1.Objective test 2.Task-6: Identify food sources of minerals Form of Assessment : Participatory Activities	Lectures, Questions and Answers, Discussions and Assignments 2 X 50	Material: Minerals Reference: Almatsier, S. 2002. Basic Principles of Nutrition Science. Gramedia Pustaka Utama, Jakarta Material: Minerals Library: Hardinsyah & Supariasa, IDN 2017. Nutrition Science: Theory and Application. EGC, Jakarta Material: Minerals Library: Mahan LK & Sylvia ES. 2011. Krause's Food & the Nutrition Care Process 13th Edition. Philadelphia: WB Saunders Company. Material: Minerals Library: Mahan LK & Sylvia ES. 2011. Krause's Food & the Nutrition Care Process 13th Edition. Company. Material: Minerals Library: Setyawati, VAV, and Hartini, Eko. 2018. Basic Textbook of Public Health Nutrition Science. Deepublish	10%
8	Midterm exam			2 X 50		0%

9	Understand the meaning and concept of fluids and electrolytes in nutrition science	 1.1. Explain the meaning and concept of fluids and electrolytes 2.2. Explain the sources of fluids and electrolytes 3.3. Calculate daily fluid requirements 	Criteria: 1.objective test 2.Task-7: calculate daily fluid requirements Form of Assessment : Participatory Activities	Lectures, Questions and Answers, Discussions and Assignments 3 X 50	Material: Electrolytes References: Almatsier, S. 2002. Basic Principles of Nutrition Science. Gramedia Pustaka Utama, Jakarta	5%
		4.4. Explain the impact of excess and deficiency of fluids and electrolytes			Material: Electrolytes Library: Hardinsyah & Supariasa, IDN 2017. Nutrition Science: Theory and Application. EGC, Jakarta Material: Electrolytes References: Mahan LK &	
					Sylvia ES. 2011. Krause's Food & the Nutrition Care Process 13th Edition. Philadelphia: WB Saunders Company. Material	
					Material: Electrolytes References: Setyawati, VAV, and Hartini, Eko. 2018. Basic Textbook of Public Health Nutrition Science. Deepublish	

10	Understand the concept of digestion, absorption and metabolism of nutrients in general	 1.1. Explain the concept of digestion of nutrients 2.2. Explain the concept of nutrient absorption 3.3. Explain the metabolism of nutrients 	Criteria: Objective test	Lectures, Questions and Answers, Discussions and Assignments 3 X 50	Material: Nutrient metabolism. Reference: Almatsier, S. 2002. Basic principles of nutritional science. Gramedia Pustaka Utama, Jakarta Material: Nutrient metabolism Reference: Hardinsyah & Supariasa, IDN 2017. Nutrition Science: Theory and Application. EGC, Jakarta Material: Nutrient metabolism References: Mahan LK & Sylvia ES. 2011. Krause's Food & the Nutrition Care Process 13th Edition. Philadelphia: WB Saunders Company. Material: Nutrient metabolism References: Setyawati, VAV, and Hartini, Eko. 2018. Basic	5%
					Public Health Nutrition Science. Deepublish	
11	Understand the concept of interchangeable food ingredients (BMP), food ingredient composition list (DKBM) and Indonesian food composition table (TKPI)	 Explain the concept of interchangeable foodstuffs (BMP) Explain the concept of food ingredient composition list (DKBM) Explain the concept of the Indonesian food composition table (TKPI) 	Criteria: Objective test Form of Assessment : Participatory Activities	Lectures, Questions and Answers, Discussions and Assignments 3 X 50	Material: Exchange food ingredients Reference: Almatsier, S. 2002. Basic Principles of Nutrition Science. Gramedia Pustaka Utama, Jakarta Material: list of food ingredient composition Reference: Hardinsyah & Supariasa, IDN 2017. Nutrition Science: Theory and Application. EGC, Jakarta	10%

12	Understand and calculate daily energy needs	 Understand and calculate daily energy needs Objective test 	Form of Assessment : Participatory Activities	Group Work, Discussion, Project Based Learning 3 X 50	Material: Calculating energy needs References: Almatsier, S. 2002. Basic Principles of Nutrition. Gramedia Pustaka Utama, Jakarta Material: Energy Library: Mahan LK & Sylvia ES. 2011. Krause's Food & the Nutrition Care Process 13th Edition. Philadelphia: WB Saunders Company.	10%
13	Calculate daily nutritional requirements	 Calculate daily carbohydrate needs Calculate daily fat requirements Calculate daily protein requirements 	Criteria: 1.Calculate daily carbohydrate, fat and protein needs 2.Objective test Form of Assessment : Participatory Activities	Group Work, Discussion, Project Based Learning 3 X 50	Material: Calculating daily nutritional needs Reference: Almatsier, S. 2002. Basic Principles of Nutrition Science. Gramedia Pustaka Utama, Jakarta Material: Calculating daily nutritional needs Reference: Hardinsyah & Supariasa, IDN 2017. Nutrition Science: Theory and Application. EGC, Jakarta Material: Calculating daily nutritional needs References: Mahan LK & Sylvia ES. 2011. Krause's Food & the Nutrition Care Process 13th Edition. Philadelphia: WB Saunders Company. Material: Calculating daily nutritional needs References: Setyawati, VAV, and Hartini, Eko. 2018. Basic Textbook of Public Health Nutrition Science. Deepublish	10%

14	Design a menu for daily nutritional needs	 1.1. Identify food sources of carbohydrates 2.2. Identify food sources of protein 3.3. Identify food sources of fat 4.4. Identify food sources of vitamins and minerals 	Criteria: 1.Identify food sources of carbohydrates, proteins, fats, vitamins and minerals 2.Objective test Form of Assessment : Participatory Activities, Practice/Performance	Group Work, Discussions, Presentations and Projects 6 X 50	Material: daily nutritional needs menu Reference: Hardinsyah & Supariasa, IDN 2017. Nutrition Science: Theory and Application. EGC, Jakarta Material: menu for daily nutritional needs Reader: Mahan LK & Sylvia ES. 2011. Krause's Food & the Nutrition Care Process 13th Edition. Philadelphia: WB Saunders Company.	10%
15	Design a menu for daily nutritional needs	Design a menu for daily nutritional needs	Criteria: 1.Design a menu for daily nutritional needs 2.Objective test Forms of Assessment : Participatory Activities, Practical Assessment, Practical / Performance	Practical 6 X 50	Material: daily nutritional needs menu Reference: Hardinsyah & Supariasa, IDN 2017. Nutrition Science: Theory and Application. EGC, Jakarta Material: menu for daily nutritional needs Reader: Mahan LK & Sylvia ES. 2011. Krause's Food & the Nutrition Care Process 13th Edition. Philadelphia: WB Saunders Company.	5%
16	Final exams					0%

Evaluation Percentage Recap: Case Study

	<u> </u>	
No	Evaluation	Percentage
1.	Participatory Activities	156.67%
2.	Practical Assessment	1.67%
3.	Practice / Performance	6.67%
		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.
 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 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.
- 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.