	SEMESTER LEARNING PLAN		Prepared by	Examined by	Approved by	Document Registration Number
	SLP		(Person in Charge)	(Head of Bachelor Program / Head of Department)	Vice Dean I	
Universitas Airlangga						01/S1Kesmas/RPS/2019
	Revision - Date			Dr. Diah Indriani, S.Si., M.Si	Dr. Santi Martini, dr., M.Kes	
Faculty of Public Health	Valid on Semester (odd/even) / Academic Year	Odd Semester 2019/2020				
			(sign)	(sign)	(sign)	

<sup>•</sup> Evaluation of this document is needed every year

# A. DETAILS OF COURSE

1. Course Name	Food and Nutrition Technology
2. Course Code	NUM 304
3. Credits (SKS)	2 (two) SKS
4. Semester / Term	VII (seventh)
5. Study Program	Bachelor of Public Health
6. Student Learning Achievement	After attending this course, students are able to explain the impacts of the principles of food processing (high temperature/heat, low temperature, drying, fermentation, BTM), the characteristics of food, packaging and storage on nutrition so that it can increase the use value and value added of food, and students can understand the most current issues of food.
7. Course Learning Achievement	<ol> <li>Make relevant decision pertaining to the problems faced</li> <li>Lead and participate in group to formulate specific public health issues</li> <li>Apply the public health knowledge, including social and behavioral knowledge, chronic disease, infection, and accident</li> <li>Oversee program's performance</li> <li>Identify internal and external issues that may affect the implementation of public health's essential service (compose strategic plans)</li> </ol>
8. Course description	The course of Food and Nutrition Technology discusses: Processing principles with high temperature/heat; The principles of low temperature processing; The principles of processing by drying; Principles of processing by fermentation; The principles of processing with BTM; Processing and storing various types of food (cereals, tubers, and nuts, meat, fish, eggs, milk, vegetables and fruit) which include preparation, processing and effects on nutritional content; irradiation storage/preservation; Packaging of various food products; Current issues of food.
9. Course Prerequisites (if any)	None
10. Instructor	
11. Teaching Assistants	

## **B. TEACHING PROGRAM**

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Faculty of Public Health	Valid on Semester (odd/even) / Academic Year	Odd Semester 2019/2020				
			(sign)	(sign)	(sign)	

Week	Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)	Mark / Grade / Percent age (%)	Reference Number Ref. (nomor)
1	2	3	4	5	6	7	8	9	10
1	Students are able to provide description about the course of food technology and nutrition	Explanation of course outline, introduction, and syllabus: a. Explanation on food technology and nutrition course b. Explanation on syllabus c. Explanation on course outline and course schedule	<ol> <li>Lectures</li> <li>Discussions.</li> </ol>	LCD and Whiteboard	2x50 minutes		<ol> <li>Discipline</li> <li>Communicati on skill</li> <li>Critical thinking</li> </ol>		1, 3
2	Students are able to explain Diversification of Processed Foods	1. General Condition of Agribusiness in Indonesia:	<ol> <li>Lectures</li> <li>Discussions.</li> </ol>	LCD and Whiteboard	2x50 minutes		Discipline     Communicati     on skill     Critical     thinking		3, 1

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Faculty of Public Health	Valid on Semester (odd/even) / Academic Year	Odd Semester 2019/2020				
			(sign)	(sign)	(sign)	

Wo	of each	expected at the end the learning phase Sub-Course chievement) (C, A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)	Mark / Grade / Percent age (%)	Reference Number Ref. (nomor)
1		2	3	4	5	6	7	8	9	10
			a. Description on food industry b. Competitivene ss of agricultural processed products 2. Innovation and Diversification on business process: a. Definition of product diversification b. Aim of product diversification c. Understand consumer's behavioral change							

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Faculty of Public Health	Valid on Semester (odd/even) / Academic Year	Odd Semester 2019/2020				
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1	2	3	4	5	6	7	8	9	10
		<ul> <li>3. Impact of innovation and diversification:</li> <li>a. Improvement of agroindustry's competitivenes s</li> <li>b. Basic pattern of competitive agroindustry development</li> <li>c. Competitivene ss of agro industry and business mindset</li> </ul>							
3	Students are able to explain food characteristic (physical, chemistry, biology)	Preface:     a. Definition of Food	<ol> <li>Lectures</li> <li>Discussions.</li> </ol>	LCD and Whiteboard	2x50 minutes		Discipline     Communicati     on skill		1, 3

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1	2	3	4	5	6	7	8	9	10
		b. Definition of Food Science c. Food Categorization 2. Food Ingredient Characteristics: a. Physical b. Chemical c. Biology 3. Main components of food ingredient: a. Carbohydr ate characteris tic in food b. Fat characteris tic in food c. Protein in food					3. Critical thinking		

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Week	Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)	Mark / Grade / Percent age (%)	Reference Number Ref. (nomor)
1	2	3	4	5	6	7	8	9	10
4	Students are able to explain processing by high temperature/thermal	1. Preface:  a. Main factors in food spoilage  b. Aim of food processing  c. Principles of processing  2. Processing by thermal:  a. Aim of thermal  b. Examples of application of thermal in processing  c. Occurrences during thermal process  d. Thermal source  e. Changes taking place	<ol> <li>Lectures</li> <li>Discussions.</li> </ol>	LCD and Whiteboard	2x50 minutes		Discipline     Communicati     on skill     Critical     thinking		3, 2

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Faculty of Public Health	Valid on Semester (odd/even) / Academic Year	Odd Semester 2019/2020				
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Week	Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)	Mark / Grade / Percent age (%)	Reference Number Ref. (nomor)
1	2	3	4	5	6	7	8	9	10
		f. Factors influencing cooking process g. Impact of thermal on nutrients h. Use of thermal to prolong storage span i. Optimization of cooking process							
5	Students are able to explain processing by low temperature	Preface:     a. Aim of chilling     Incorrect Chilling:     a. Chilling Injury     b. Surface pitting c. Discoloration d. Internal breakdown	<ol> <li>Lectures</li> <li>Discussions.</li> </ol>	LCD and Whiteboard	2x50 minutes		<ol> <li>Discipline</li> <li>Communicati on skill</li> <li>Critical thinking</li> </ol>		1, 3

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	SL	SLP		(Head of Bachelor Program / Head of Department)	Vice Dean I		
Universitas Airlangga	<u> </u>					01/S1Kesmas/RPS/2019	
	Revision - Date			Dr. Diah Indriani, S.Si., M.Si	Dr. Santi Martini, dr., M.Kes		
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			(sign)	(sign)	(sign)		

W	of each lear eek (Sub- Achiev	red at the end rning phase Course rement) A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)	Mark / Grade / Percent age (%)	Reference Number Ref. (nomor)
	1	2	3	4	5	6	7	8	9	10
			e. Ripening failures							
	processing by		Drying: a. Preface b. Drying method c. Types of drying d. Factors influencing drying process e. Impact of drying on characteristic and nutritional value of food product	Lectures     Discussions.	LCD and Whiteboard	2x50 minutes		Discipline     Communicati on skill     Critical thinking		1, 3
	7 Students are a processing by		Preface:     a. Fermentation product	<ol> <li>Lectures</li> <li>Discussions.</li> </ol>	LCD and Whiteboard	2x50 minutes		<ol> <li>Discipline</li> <li>Communicati on skill</li> </ol>		3, 1

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Week	Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)	Mark / Grade / Percent age (%)	Reference Number Ref. (nomor)
1	2	3	4	5	6	7	8	9	10
		b. Advantages of fermented products 2. Fermented final product: a. Fermentation on carbohydrate b. Fermentation on protein					3. Critical thinking		
			MID-T	ERM TEST		•		•	
8	Visiting/ guest lecture	Role and challenges of food science in improving nutritional status and public health: a. Food function b. Functional food c. Change in food from traditional to functional d. Food security		LCD and Whiteboard	2x50 minutes		Discipline     Communicati     on skill     Critical     thinking		1, 3

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Faculty of Public Health	Valid on Semester (odd/even) / Academic Year	Odd Semester 2019/2020				
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1	2	3	4	5	6	7	8	9	10
		e. Food diversification f. Rainbow food g. Innovation based on people's preference							
9	Students are able to explain processing by BTP	1. Preface:  a. Aim of food preservation  b. Fundamentals of food preservation  2. Food preservation:  a. Drying  b. Canning  c. Radiation  d. Impact on food  3. Additional food ingredient:  a. Definition	<ol> <li>Lectures</li> <li>Discussions.</li> </ol>	LCD and Whiteboard	2x50 minutes		<ol> <li>Discipline</li> <li>Communicati on skill</li> <li>Critical thinking</li> </ol>		1, 6

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Week	Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)	Mark / Grade / Percent age (%)	Reference Number Ref. (nomor)
1	2	3	4	5	6	7	8	9	10
10		b. Deviation of BTM c. Requirements of BTM d. Categorization of BTM e. Setting of BTM f. Forbidden BTM			2.50				
10	Students are able to explain food irradiation	1. Preface:  a. Definition of food irradiation  b. Principles of food irradiation basics  c. Effect of irradiation on object  2. Food Radiation:	<ol> <li>Lectures</li> <li>Discussions.</li> </ol>	LCD and Whiteboard	2x50 minutes		<ol> <li>Discipline</li> <li>Communicati on skill</li> <li>Critical thinking</li> </ol>		3

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Week	Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)	Mark / Grade / Percent age (%)	Reference Number Ref. (nomor)
1	2	3	4	5	6	7	8	9	10
		a. Application of nuclear science and technology on agriculture and animal husbandry b. Application of radiation on plant breeding c. Logo and irradiated food label d. Method of irradiation on food 3. Example of food treatment on irradiation: a. Irradiation on fish							

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Week	Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)	Mark / Grade / Percent age (%)	Reference Number Ref. (nomor)
1	2	3	4	5	6	7	8	9	10
		b. Irradiation on seeds							
11	Students are able to explain Food Storage	Preface:     a. History of food storage     b. Function of food storage     c. Aim of food storage     c. Food loss and spoilage during storage:     a. Types of loss     b. Quantitative spoilage	<ol> <li>Lectures</li> <li>Discussions.</li> </ol>	LCD and Whiteboard	2x50 minutes		Discipline     Communicati on skill     Critical thinking		3, 5
12	Students are able to explain food packaging	Packaging:     a. Definition of packaging     b. Difference between packaging and container	<ol> <li>Lectures</li> <li>Discussions.</li> </ol>	LCD and Whiteboard	2x50 minutes		<ol> <li>Discipline</li> <li>Communicati on skill</li> <li>Critical thinking</li> </ol>		3, 5, 2

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1	2	c. Function of	4	5	6	7	8	9	10
		packaging d. Requirements of packaging 2. Types of packaging: a. Primary packaging b. Secondary packaging c. Tertiary							
		packaging 3. Types of packaging: a. Based on material b. Based on construction c. Based on form d. Based on function							

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			(sign)	(sign)	(sign)	

Week	Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)	Mark / Grade / Percent age (%)	Reference Number Ref. (nomor)
1	2	3	4	5	6	7	8	9	10
		4. Function and risk of packaging: a. Traditional packaging b. Modern packaging 5. Packaging problems in Indonesia: a. Causes of haphazard packaging b. Potential health hazard source of plastic packaging from some sources c. Interaction between chemical							

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,	Week	Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)	Mark / Grade / Percent age (%)	Reference Number Ref. (nomor)
	1	2	3	4	5	6	7	8	9	10
			packaging material and food d. Method of minimizing hazard							
13	3.	Students are able to explain current food science and technology issues	1. Preface:  a. Development of nutritional science  b. Development of food technology science  2. Improvement on food quality:  a. Fortification  b. Supplementati on  c. Restoration  d. Complementati ion  3. Functional food:	<ol> <li>Lectures</li> <li>Discussions.</li> </ol>	LCD and Whiteboard	2x50 minutes		<ol> <li>Discipline</li> <li>Communicati on skill</li> <li>Critical thinking</li> </ol>		3, 1

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1	2	3	4	5	6	7	8	9	10
		a. Definition b. Requirement of functional food c. Example of functional food 4. Genetically modified products: a. Nutrition improvement via genetic modification on food b. Nutrition improvement on conventional breeding	FINAI	TERM TEST					
			FINAL	TERM TEST					

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			(sign)	(sign)	(sign)	

### **C. DAFTAR REFERENSI**

#### **Required Readings:**

- 1. JAG Ress and J. Bettison. 1991. Processing and Packaging of Heat Preserved Food. Blackie, Glasgow and London
- 2. Estiasih, Teti dan Ahmadi. 2008. Teknologi Pengolahan Pangan. Bumi Aksara
- 3. Rizal Syarif dan Hariyadi H. 1993. Teknologi Penyimpangan Pangan. Arcan dan PAU Pangan dan Gizi.IPB

#### **Additional Readings:**

- 1. Credland, P.F., Armitage, D.M., Bell, C.H., Cogan, P.M., and Highley, E. 2003. Advances in Stored Product Protection. Proceedings of the 8<sup>th</sup> International Working Conference on Stored Product Protection. CAB International, Wallingford and Cambridge.
- 2. Miller GD, et al. 2006. Dairy Foods and Nutrition. 3th ed. National Dairy Council
- 3. Cahyadi, Wisnu Dr, Ir. 2006. Bahan Tambahan Pangan. PT. Bumi Aksara