OUTLINES PROGRAM EDUCATION, UNIT OF EVENT INSTRUCTION, & CONTRACT LECTURING



PROGRAM STUDY NUTRITION SCIENCE FACULTY OF MEDICINESS DIPONEGORO UNIVERSITY

PROGRAM STUDY STRATA-1 NUTRITION SCIENCE (ILMU GIZI) FACULTY OF MEDICINESS DPONEGORO UNIVERSITY

SUBJECT

: SCIENCE PHILOSOPHY (FILSAFAT ILMU)

SCS/SEMESTER

: 3 SCS/I

SUPERVISOR

: Prof. dr. HM. Sulchan, MSc, SpGK

DESCRIPTION

: This study in fact represent introductory subject for the philosophy of and science of Bioetic, therefore its gift/giving in semester 1 where student not yet ready for study implementation both the things in activity of reality. That is why most its target is to comprehend.

GENERAL INSTRUCTIONAL TARGET(TIU)

: 1. Comprehending science reality and applying responsibility, to God and for the sake of environment

(natural and social).

2. Comprehending reality of bioetic and its applying in executing activity of science, especially Nutrition

Science (Ilmu Gizi).

SPESIFIC INSTRUCTIONAL TARGET	TOPIC	SUB TOPIC	WEEK	REFFERE NCES	METHOD of STUDY	LECTURE	
	1	2	4	5	6	7	
Comprehending definition of philosophy	1 The definiti on of philosop hy	-mean truth -definition of philosophy -study area -philosophy branch -definition of philosophy science	1-2	1. Suria- sumantri, JS. Filsaft Ilmu: Sebuah Pengantar Populer. Jakarta: Pustaka Sinar Harapan, 19	1 discourse 2 discus- sion	1. Prof. dr. HM. Sulchan, MSc, SpGK	
				99 2. The, LG. Pengantar Filsafat Ilmu. Yogyakarta ; Liberty,199 9			
Comprehending	2 Basic	- Truth	3	same	same	same	

truth bosss	Knowled	theory				
truth bases	1	- Mean and				
	ge	concept of				
		the truth				
j		- Essence of				
		thinking				
		- Logic				
		- Source of				
		knowledge				gom a
Explain abaut	3	- Definition	4	same	same	same
Ontology Science	Ontology	of Ontology				
		- Various ism				
		in ontology				
		- Change				
	'	- Asumption			£	
		- Boundary				
		explore				
		science				
Explain about	4 Epis-	- Definition	5	same	same	same
Epistemology	temology	of Episte				
Knowledge		Mology				l
		- Definition			Ì	
		of knowledge				
		& science				
		-Erudite				
		method				
		structure				
		-Erudit				
		knowledge				
		Kilowicago				
Evalain Avialany	5.	- Definition	6	same	same	same
Explain Axiology	J.	of Axiology		Starte	044110	
Knowledge	Axiology					
		- Netrality		1		
		Science and				
		moral			į	
	ļ	- Social			1	
		responsibility				
		scientist				
		- Case with				
		high moral				
		wight				
Explain about	6	- Variety of	7	same	same	same
medium of erudite		medium				
l	erudite	erudite				
thinking	thinking	thinking				
thinking	Littinging,		1	1	ì	
thinking	dimking	- Role of	1	ļ		
thinking	dimang	1				
thinking	umamg	language				
thinking	umanig	language - Role of				
thinking	umking	language - Role of Mathematics				
thinking	umking	language - Role of				

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Comprehending	7 Erudite	- Framework	8-9	idem	idem	idem
erudite study path	study	erudite study	į		ļ	
and framework.	bases	- Erudite			ĺ	
		study path		Į.		
		- Basic				
		erudite				
]	method				
		- Elementary				
		technique of				
		erudite				
:		writing.		1		
	8		10-11	3. Bertens,		same
Comprehending		- Meaning of	10-11	K. Etika.	same	Saint
Ethics	Common	ethics		1		
	definition	- Ethics as	!	Jakarta:		
	of ethics	value system		Gramedia,		
		- Ethics as		1993	l	
		value	•			
		principality			ĺ	
		corps.				
Comprehending	ا وا	- Definition	12	4.Internati	same	same
bioethics	introduct	of Bioethics		onal		
	ory of	- History of		Ethical		
	bioethics	Bioethics		Guidelines		
		Growth		for		
		-Aplication		Biomedical		
		of Bioethics		Research		
		- Bioethics		Involving	,	
		and Law		Human		
		MIG DAW		Subjects.		
				CIOMS,		
ļ	į					
				Geneva, 19		
ļ				93	ļ	
				5.	1	
				Internation		
				al		
				Guidelines		[
				for Ethical		
				Review of		
				Epidemolo		
				gical		
				Studies		
				CIOMS,		
				Geneva, 19		
				91		
Comprehending	10	- Declaration	13-14	Idem	same	same
Declaration of		of Jenewa		+		
Jenewa & other				6. Samil,	{	
document about	ī	- execution		RS. Etika		
	in	mechanism		Kedokteran		
Bioethics		1		i i		
1	Service	of KEKI		. Indonesia, Jakarta:Sar		
	77. 1.7			IOPOTO'NOT		i
	Health.	- Kode Etik				
	Health.	Gizi Indonesia		wono,2001. 7.(Draft)		

				Kode Etik Profesi Gizi, 1999		idem
Comprehending principal of bioethics in research to human being	impleme ntation bioethics in research to human being	- Principal of bioethics in research to human being - Principal of bioethics in biomedic research - Principal of bioethics in epidemiology research - Mechanism execution of bioethics in research to human being	15-16	idem	idem	

CONTRACT LECTURING.

SUBJECT : PHILOSOPHY SCIENCE & BIOETHICS

CODE : KUG110 SCS (System Credit Semester) : 3 SCS

SEMESTER : I

SUPERVISOR : Prof. dr. Sulchan, MSc, DA.Nutr, SpGK LECTURER : Prof. dr. Sulchan, MSc, DA.Nutr, SpGK

SCHEDULE : Friday, 08.00-10.40 AM

MEETING PLACE : Room.....

1. BENEFIT of SUBJECT

This Subject is needed by student since early them comprehend about existence of science method and method of bioethics which must always made by base in activity of Nutrition profession and science in service and research of nutrition.

2. DESCRIPTION of SUBJECT

This Subject in fact represent introductory, reaching Philosophy Science and of bioethics, because of its gift is executed in semester 1, so that student not yet implementation can the understanding of study both the things in activity of real profession and science in future.

3. INSTRUCTSIONAL TARGET

General Instructional Target

(Tujuan Instruksional Umum/TIU)

- Comprehending science reality and its applying responsibility, to God and for environment (natural and social).
- Comprehending reality of bioethics and its applying in executing activity of science, specially nutrition.

Specific Instructional Target

(Tujuan Instruksional Khusus/TIU)

- Comprehending congeniality of philosophy
- Comprehending truth bases
- Explaining science ontology
- Explaining science epistomology
- Explaining science axiology
- Comprehending suggestion of erudite thinking
- Comprehending elementary path and framework of erudite thinking
- Comprehending ethics meaning
- Comprehending coverage congeniality of bioethics
- Comprehending declaration of jenewa other document and of bioethics
- Comprehending principle of bioethics in research to human being
- Comprehending execution of principle of bioethics in research of biomedic

4. LECTURING STRATEGY

This lecturing is given in the form of class discourse to present interconnected illustration and concept. Class managed to invite student discussion and attention.

5. READING LECTURING

Book / fundamental reading in this lecturing are:

- 1. Suriasumantri, JS Filsafat Ilmu: Sebuah Pengantar Populer. Jakarta: Pustaka SinarHarapan, 1999
- 2. The, LG. Pengantar Filsafat Ilmu. Yogyakrta: Liberty, 1999
- 3. Berteens, K. Etika. Jakarta: Gramedia, 1993
- 4. Inthernational Ethical Guidelines for Biomedical Research Involving Human Subjects. CIOMS, Geneva, 1993
- 5. International Guidelines for Ethical Review of Epidemological Studies. CIOMS, Geneva. 1991
- 6. Samil, RS. Etika Kedokteran. Indonesia, Jakarta: Sarwono, 2001
- 7. (Draft) Kode ETik Profesi Gizi, 1999

6. DUTY

Student given duty:

- a. to review Philosophy Science handing out
- b. to review Bioethics handing out
- c. the report of review is presented in classs and will be discusss

7. ASSESSMENT CRITERIA

Assessment will be conducted by instructor by using the following criteria:

Value	Point	Range
A	4	4-
AB	3,5	3.5-3.9
В	3	3.0-3.4
ВС	2,5	2.5-2.9
C	2	2.0-2.4
CD	1,5	1.5-1.9
D	1	1.0-1.4
E	0	0.0-0.9

In determining final value, will be used the following wight:

Absence	30%
Mid semester evaluation	30 %
End semester evaluation	40 %
Total	100 %

8. LECTURING SCHEDULE

MEETING	TOPIC	LECTURER
LECTURING 1	Common Definition of Philosophy	No. 1-2
LECTURING 2	Basics of Knowledge	same
LECTURING 3	Ontology	same
LECTURING 4	Epistomology	same
LECTURING 5	Axiology	same
LECTURING 6	Basic of Erudit Thinking	same
LECTURING 7	Basic of Erudite Study	same
LECTURING 8	Mid Semester Evaluation	same
LECTURING 9	Common definition of Ethics	No 3-7
LECTURING 10	Deliverer of Bioethics	same
LECTURING 11	Implementation of Bioethics in	same
	Health	
	Service	
LECTURING 12	Implementation of Bioethics in	same
	Human research	
LECTURING 13	Review of Philosophy Science	No 1-2
	Handing Out	
LECTURING 14	Review Bioethics Handing Out	No 3-7
LECTURING 15	Presentation Result of Handing Out	all
	review	
LECTURING 16	End Semester Evaluation	same

PHILOSOPHY SCIENCE

(Code : KUG 110)

PROGRAM STUDY GIZI SCIENCE **FACULTY of MEDICINNES DIPONEGORO UNIVERSITY**

LECTURER: Prof. dr. Sulchan, MSc, DA.Nutr, SpGK

Semester: I (one)

(SATUAN ACARA PENGAJARAN SAP)

SUBJECT

: Philosophy Science

CODE

: KUG110

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Prof. dr. Sulchan, MSc, DA.Nutr, SpGK

TIME MEETING

: 3 x 55 Minutes

MEETING

: 1

A. INSTRUCTIONAL TARGET

General Instructional Target (Tujuan Instruksional Umum/TIU)

Comprehending science reality and its applying by responsible, to God and for the sake of environment natural and social.

Specific Instructional Target (Tujuan Instruksional Khusus/TIU)

Comprehending common definition about philosophy

B. TOPIC

COMMON DEFFINITION of PHILOSOPHY

C. SUB TOPIC

- the meaning of truth
- definition of philosophy
- field analysis philosophy
- branch of philosophy
- definition of science philosophy

D. LECTURING ACTIVITY

PHASE of ACTIVITY	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA &INSTRUMENT LECTURING
ANTECEDENT	explain the matery of the growth of child	Listening and discussing	I LCD Projector
PRESENTATION	explain the definition of philosophy	Listening and discussing	l LCD Projector
	explain-field-analyse of philosophy	Listening and discussing	I-LCD-Projector
	Explain branch of philosophy	Listening and discussing	d LCD Projector
145.00	give early explanation about Philosophy science	Listening and discussing	d LCD Projector
CONCLUSION	Concluding	Listening and discussing	d LCD Projector

EVALUATION E

- 1. Discussing during study
 2. Mid semester evaluation
- 3. End semester evaluation

REFERENSI F

- 1. Suriasumantri, JS. Filsafat Ilmu: Sebuah Pengantar Populer. Jakarta; Pustaka Sinar Harapan, 1999
- 2. The, LG. Pengantar Filsafat Ilmu. Yogyakarta: Liberty, 1999

(SATUAN ACARA PENGAJARAN SAP)

SUBJECT

: Philosophy Science

CODE

: KUG110

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Prof. dr. Sulchan, MSc, DA.Nutr, SpGK

TIME MEETING

: 3 x 55 Minutes

MEETING

: II

A. INSTRUCTIONAL TARGET

General Instructional Target (Tujuan Instruksional Umum/TIU)

Comprehending science reality and its applying by responsible, to God and for the sake of environment natural and social.

Specific Instructional Target (Tujuan Instruksional Khusus/TIU)

Comprehending basics of truth

B. TOPIC

BASICS of KNOWLEDGE

C. SUB TOPIC

- the theory of truth
- meaning and concept of truth
- essence of thinking
- logic
- source of knowledge

D. LECTURING ACTIVITY

PHASE of ACTIVITY	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA &INSTRUMENT LECTURING
ANTECEDENT	explain the matery of the basics of knowledge	Listening and discussing	d LCD Projector
PRESENTATION	explain meaning and concept of truth	Listening and discussing	LCD Projector
	explain the essence of thinking	Listening and discussing	d LCD Projector
	explain the logic	Listening and discussing	d LCD Projector
	Explain about source of nowledge	Listening and discussing	d LCD Projector
CONCLUSION	Concluding	Listening and discussing	d LCD Projector

E EVALUATION

- 1. Discussing during study
- 2. Mid semester evaluation
- 3. End semester evaluation

F REFERENSI

- 1. Suriasumantri, JS. Filsafat Ilmu: Sebuah Pengantar Populer. Jakarta; Pustaka Sinar Harapan, 1999
- 2. The, LG. Pengantar Filsafat Ilmu. Yogyakarta: Liberty, 1999

(SATUAN ACARA PENGAJARAN/SAP)

SUBJECT

: Philosophy Science

CODE

: KUG110

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Prof. dr. Sulchan, MSc, DA.Nutr, SpGK

TIME MEETING

: 3 x 55 Minutes

MEETING

: 111

A. INSTRUCTIONAL TARGET

General Instructional Target (Tujuan Instruksional Umum/TIU)

Comprehending science reality and its applying by responsible, to God and for the sake of environment natural and social.

Specific Instructional Target (Tujuan Instruksional Khusus/TIU)

Explain Ontology Science

B. TOPIC

ONTOLOGY

C. SUB TOPIC

- deffinition of Ontology
- various ism in ontology
- chance
- assumption
- boundary explore science

E. LECTURING ACTIVITY

PHASE of ACTIVITY	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA &INSTRUMENT LECTURING
ANTECEDENT	explain the matery about ontology	Listening and discussing	LCD Projector
PRESENTATION	explain definition of ontology	Listening and discussing	LCD Projector
	explain about chance	Listening and discussing	L LCD Projector
	explain about assumption	Listening and discussing	l LCD Projector
	explain about boundary explore science	Listening and discussing	LCD Projector
CONCLUSION	Concluding	Listening and discussing	d LCD Projector

\mathbf{E} **EVALUATION**

- Discussing during study
 Mid semester evaluation
- 3. End semester evaluation

F REFERENSI

- 1. Suriasumantri, JS. Filsafat Ilmu: Sebuah Pengantar Populer. Jakarta; Pustaka Sinar Harapan, 1999
- 2. The, LG. Pengantar Filsafat Ilmu. Yogyakarta: Liberty, 1999

(SATUAN ACARA PENGAJARAN/SAP)

SUBJECT

: Philosophy Science

CODE

: KUG110

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Prof. dr. Sulchan, MSc, DA.Nutr, SpGK

TIME MEETING

: 3 x 55 Minutes

MEETING

: **IV**

A. INSTRUCTIONAL TARGET

General Instructional Target (Tujuan Instruksional Umum/TIU)

Comprehending science reality and its applying by responsible, to God and for the sake of environment natural and social.

Specific Instructional Target (Tujuan Instruksional Khusus/TIU)

Explain epistemology science

B. TOPIC

EPISTEMOLOGY

C. SUB TOPIC

- definition of epistemology
- definition of science snd knowledge
- erudite method
- structure of erudit knowledge

F. LECTURING ACTIVITY

PHASE of ACTIVITY	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA &INSTRUMENT LECTURING
ANTECEDENT	explain the matery of epistemology	Listening and discussing	I LCD Projector
PRESENTATION	explain definition epistemology	Listening and discussing	LCD Projector
	explain definition of science and knowledge	Listening and discussing	LCD Projector
	explain about erudite method	Listening and discussing	LCD Projector
	Explain about structure of erudite knowledge	Listening and discussing	I LCD Projector
CONCLUSION	Concluding	Listening and discussing	LCD Projector

E **EVALUATION**

- Discussing during study
 Mid semester evaluation
- 3. End semester evaluation

F REFERENSI

- 1. Suriasumantri, JS. Filsafat Ilmu: Sebuah Pengantar Populer. Jakarta; Pustaka Sinar Harapan, 1999
- 2. The, LG. Pengantar Filsafat Ilmu. Yogyakarta: Liberty, 1999

(SATUAN ACARA PENGAJARAN SAP)

SUBJECT : Philosophy Science

CODE : KUG110 SCS (System Credit Semester) : 3 SCS

LECTURER : Prof. dr. Sulchan, MSc, DA.Nutr, SpGK

TIME MEETING : 3 x 55 Minutes

MEETING : V

A. INSTRUCTIONAL TARGET

General Instructional Target (Tujuan Instruksional Umum/TIU)

Comprehending science reality and its applying by responsible, to God and for the sake of environment natural and social

Specific Instructional Target (Tujuan Instruksional Khusus/TIU)

Explain about axiology science

B. TOPIC

AXIOLOGY

C. SUB TOPIC

- definition of axiology
- neutrality science and moral
- social responsibility of scientist
- case with high moral wight
- source of knowledge

D LECTURING ACTIVITY

PHASE of ACTIVITY	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA &INSTRUMENT LECTURING
ANTECEDENT	explain the matery about axiology	Listening an discussing	nd LCD Projector
PRESENTATION	explain definition of axiology	Listening an discussing	nd LCD Projector
	explain neutrality of science and moral	Listening an discussing	nd LCD Projector
	explain about social responsibility of scientist	Listening an discussing	nd LCD Projector
	Illustrate science case with high moral wight	Listening and discussing	nd LCD Projector
CONCLUSION	Concluding	Listening and discussing	nd LCD Projector

E EVALUATION

- 1. Discussing during study
- 2. Mid semester evaluation
- 3. End semester evaluation

F REFFERENCES

- 1. Suriasumantri, JS. Filsafat Ilmu: Sebuah Pengantar Populer. Jakarta; Pustaka Sinar Harapan, 1999
- 2. The, LG. Pengantar Filsafat Ilmu. Yogyakarta: Liberty, 1999

(SATUAN ACARA PENGAJARAN/SAP)

SUBJECT

: Philosophy Science

CODE

: KUG110

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Prof. dr. Sulchan, MSc, DA.Nutr, SpGK

TIME MEETING

: 3 x 55 Minutes

MEETING

: VI

A. INSTRUCTIONAL TARGET

General Instructional Target (Tujuan Instruksional Umum/TIU)

Comprehending science reality and its applying by responsible, to God and for the sake of environment natural and social.

Specific Instructional Target (Tujuan Instruksional Khusus/TIU)

Explain about medium of erudite thinking

B. TOPIC

MEDIUM of ERUDITE THINKING

C. SUB TOPIC

- Various medium of erudite thinking
- role of languange
- role of matemathics
- role of statisthic

D LECTURING ACTIVITY

PHASE of ACTIVITY	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA &INSTRUMENT LECTURING
ANTECEDENT	explain the matery about medium of erudite thinking	Listening and discussing	d LCD Projector
PRESENTATION	explain various of medium of erudite thinking	Listening and discussing	d LCD Projector
	explain role of language	Listening and discussing	d LCD Projector
	explain role of matemathics	Listening and discussing	d LCD Projector
	explain role of statisthic	Listening and discussing	d LCD Projector
CONCLUSION	Concluding	Listening and discussing	d LCD Projector

E **EVALUATION**

- Discussing during study
 Mid semester evaluation
- 3. End semester evaluation

F REFFERENCES

- 1. Suriasumantri, JS. Filsafat Ilmu: Sebuah Pengantar Populer. Jakarta; Pustaka Sinar Harapan, 1999
- 2. The, LG. Pengantar Filsafat Ilmu. Yogyakarta: Liberty, 1999

(SATUAN ACARA PENGAJARAN/SAP)

SUBJECT

: Philosophy Science

CODE

: KUG110 : 3 SCS

SCS (System Credit Semester)

: Prof. dr. Sulchan, MSc, DA.Nutr, SpGK

LECTURER
TIME MEETING

: 3 x 55 Minutes

MEETING

: VII

B. INSTRUCTIONAL TARGET

General Instructional Target (Tujuan Instruksional Umum/TIU)

Comprehending science reality and its applying by responsible, to God and for the sake of environment natural and social

Specific Instructional Target (Tujuan Instruksional Khusus/TIU)

Explain basics of erudite study

B. TOPIC

BASICS of ERUDITE STUDY

C. SUB TOPIC

- framework of erudite study
- path erudite study
- basics of erudite method
- basic technique of erudite writing

G. LECTURING ACTIVITY

PHASE of ACTIVITY	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA &INSTRUMENT LECTURING
ANTECEDENT	explain the matery of the basics of erudite study	Listening and discussing	LCD Projector
PRESENTATION	explain framework of erudite study	Listening and discussing	LCD Projector
	explain the path of erudite study	Listening and discussing	d LCD Projector
	explain basics of erudite method	Listening and discussing	d LCD Projector
- 1-4-1-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	explain basic technique of erudite writing	Listening and discussing	d LCD Projector
CONCLUSION	Concluding	Listening and discussing	d LCD Projector

E EVALUATION

- 1. Discussing during study
- 2. Mid semester evaluation
- 3. End semester evaluation

F REFFERENCES

- 1. Bertens, K. Etika. Jakarta: Gramedia, 1993
- 2. International Ethical Guidelines for Biomedical Research involving Human Subjects. CIOMS, Geneva, 1993
- 3. International Guidelines for Ethical Review of Epidemological Studies. CIOMS, Geneva, 1991.

(SATUAN ACARA PENGAJARAN/SAP)

SUBJECT

: Philosophy Science

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: KUG110

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Prof. dr. Sulchan, MSc, DA.Nutr, SpGK

TIME MEETING

: 3 x 55 Minutes

MEETING

: VIII

INSTRUCTIONAL TARGET A

General Instructional Target (Tujuan Instruksional Umum/TIU)

Comprehending science reality and its applying by responsible, to God and for the sake of environment natural and social.

Specific Instructional Target (Tujuan Instruksional Khusus/TIU)

Comprehending ethic generally

TOPIC В.

DEFFINITION of GENERAL ETHIC

SUB TOPIC C.

- the mean of ethic
- ethic as value system
- ethic as moral principality union
- ethic as moral philosophy

LECTURING ACTIVITY D

PHASE of ACTIVITY	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA &INSTRUMENT LECTURING
ANTECEDENT	explain the matery ethic	Listening and discussing	LCD Projector
PRESENTATION	explain meaning of ethic	Listening and discussing	LCD Projector
	explain ethic as moral principality union	Listening and discussing	I LCD Projector
	explain the logic	Listening and discussing	I LCD Projector
	explain ethic as moral philosophy	Listening and discussing	1 LCD Projector
CONCLUSION	Concluding	Listening and discussing	LCD Projector

EVALUATION E

- Discussing during study
 Mid semester evaluation
 End semester evaluation

REFERENCE F

1. Bertens, K. Etika. Jakarta: Gramedia, 1993

(SATUAN ACARA PENGAJARAN/SAP)

SUBJECT

: Philosophy Science

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: KUG110

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Prof. dr. Sulchan, MSc, DA.Nutr, SpGK

TIME MEETING

: 3 x 55 Minutes

MEETING

: IX

A INSTRUCTIONAL TARGET

General Instructional Target (Tujuan Instruksional Umum/TIU)

Comprehending science reality and its applying by responsible, to God and for the sake of environment natural and social.

Specific Instructional Target (Tujuan Instruksional Khusus/TIU)

Comprehending Bioethic

B. TOPIC

INTRODUCTORY of BIOETHIC

C. SUB TOPIC

- definition of bioethic
- history of bioethic growth
- application of bioethic
- bioethic and law

D LECTURING ACTIVITY

PHASE of ACTIVITY	LECTURER ACTIVITY	1	MEDIA &INSTRUMENT LECTURING
ANTECEDENT	explain the matery of bioethic	discussing	LCD Projector
PRESENTATION	explain definition of bioethic	Listening and discussing	LCD Projector
	explain application of bioethic	Listening and discussing	LCD Projector
	explain the relation between bioethic and law	Listening and discussing	LCD Projector
CONCLUSION	Concluding	Listening and discussing	LCD Projector

E EVALUATION

- 1. Discussing during study
- 2. Mid semester evaluation
- 3. End semester evaluation

F REFERENCE

- 1. Suriasumantri, JS. Filsafat Ilmu: Sebuah Pengantar Populer. Jakarta; Pustaka Sinar Harapan, 1999
- 2. The, LG. Pengantar Filsafat Ilmu. Yogyakarta: Liberty, 1999

(SATUAN ACARA PENGAJARAN/SAP)

SUBJECT

: Philosophy Science

CODE

: KUG110

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Prof. dr. Sulchan, MSc, DA.Nutr, SpGK

TIME MEETING

: 3 x 55 Minutes

MEETING

: X

A INSTRUCTIONAL TARGET

General Instructional Target (Tujuan Instruksional Umum/TIU)

Comprehending science reality and its applying by responsible, to God and for the sake of environment natural and social.

Specific Instructional Target (Tujuan Instruksional Khusus/TIU)

Comprehending Declaration of Geneva & others document of Bioethic

B. TOPIC

IMPLEMENTATION of BIOETHIC IN HEALTH SERVICE

C. SUB TOPIC

- Declaration of Jeneva
- KEKI
- mechanism of KEKI execution
- KODE ETIK GIZI INDONESIA

D LECTURING ACTIVITY

PHASE of ACTIVITY	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA &INSTRUMENT LECTURING
ANTECEDENT	explain the matery about implementation bioethic in health service	Listening and discussing	LCD Projector
PRESENTATION	explain declaration of Jenewa	Listening and discussing	LCD Projector
	explain the KEKI	Listening and discussing	LCD Projector
	explain the mechanism of KEKI	Listening and discussing	I LCD Projector
	Explain KODE ETIK GIZI Indonesia	Listening and discussing	1 LCD Projector
CONCLUSION	Concluding	Listening and discussing	d LCD Projector

E EVALUATION

- 1. Discussing during study
- 2. Mid semester evaluation
- 3. End semester evaluation

F REFERENSI

- 1. Suriasumantri, JS. Filsafat Ilmu: Sebuah Pengantar Populer. Jakarta; Pustaka Sinar Harapan, 1999
- 2. The, LG. Pengantar Filsafat Ilmu. Yogyakarta: Liberty, 1999

(SATUAN ACARA PENGAJARAN/SAP)

SUBJECT : Philosophy Science

CODE : KUG110 SCS (System Credit Semester) : 3 SCS

LECTURER : Prof. dr. Sulchan, MSc, DA.Nutr, SpGK

TIME MEETING : 3 x 55 Minutes

MEETING : XI

A INSTRUCTIONAL TARGET

General Instructional Target (Tujuan Instruksional Umum/TIU)

Comprehending science reality and its applying by responsible, to God and for the sake of environment natural and social.

Specific Instructional Target (Tujuan Instruksional Khusus/TIU)

Comprehending Declaration of Geneva & others document of Bioethic

B. TOPIC

IMPLEMENTATION of BIOETHIC IN HUMAN RESEARCH

C. SUB TOPIC

- Declaration of Jeneva
- KEKI
- mechanism of KEKI execution
- KODE ETIK GIZI INDONESIA

D LECTURING ACTIVITY

PHASE of ACTIVITY	LECTURER ACTIVITY	~~~~ -	MEDIA &INSTRUMENT LECTURING
ANTECEDENT	explain the matery about implementation bioethic in health service	Listening and discussing	LCD Projector
PRESENTATION	explain declaration of Jenewa	Listening and discussing	LCD Projector
	explain the KEKI	Listening and discussing	LCD Projector
	explain the mechanism of KEKI	Listening and discussing	LCD Projector
	Explain KODE ETIK GIZI Indonesia	Listening and discussing	LCD Projector
CONCLUSION	Concluding	Listening and discussing	LCD Projector

E **EVALUATION**

- Discussing during study
 Mid semester evaluation
- 3. End semester evaluation

F REFERENCE

- 1. Suriasumantri, JS. Filsafat Ilmu: Sebuah Pengantar Populer. Jakarta; Pustaka Sinar Harapan, 1999
- 2. The, LG. Pengantar Filsafat Ilmu. Yogyakarta: Liberty, 1999

OUTLINES PROGRAM EDUCATION

GARIS GARIS BESAR PROGRAM PENGAJARAN

SUBJECT CODE/SCS

: Educatin of Civic : MPK102 / 3 SKS

SEMESTER

: 1

DESCRIPTION

Subject Personal Development is group of study with aim to develop godfearing and religious Indonesia human being to God Which Single The most. Education of Five Principles and Civic of substance its study cover: Base and target education of *PPKN*, *SPPB*, System punish pursuant to *Pancasila* and of *UUD 1945*, Dynamics execution of *UUD 1945*, *Pancasila* as System Philosophy & ethics, Five Principles as life paradigm and ideology, Actualization Five Principles, *HAM*, Rights And Obligations of *WNI*, Democracy, Archipelagos knowledge, Resilience National and Politics Strategy National.

GENERAL INSTRUCTIONAL TARGET

After attend the lecture this student can apply *Pancasila* values as philosophy live in to execute responsibility and duty and also societal life rights and obligations, nation and state and also meekly to law and regulation.

No.	Spesific Instructional Target		Topic	Sub topic	Refferensi
1.	Student can analysis target and be PPKN.	ase of	student can analysis target and base of <i>PPKN</i> Base and target of <i>PPKN</i> .	 Definition Base of education (historis, cultural, yuridis and filososfis) Purpose of PPKN Competence f education 	- Kansil, 2002. Pancasila & UUD 1945. , 2202. Pendidikan Ke- warganegaraan. , 2003. Mo dul Pancasila dan Kewarganegaraan
2.	Student can execute rights and obligat	ions as	rights and obligations as	- Congeniality of resident & citizen	- B Daroeso,1996. Dasar dan Konsep PMP

			citizen.	-	Civic principality Right and obligation as citizzens Advocating state		Kaelani, 2000.Pendidikan Pancasila Subagyo,dkk,2002Pendidikan Kewarganegaraan.
3.	Student understand and execute according to UU no.39 / 1999.	HAM	НАМ	-	Definition and growth of HAM HAM according to UUD 1945 Peripheral HAM in Indonesia Implementation of HAM in Indonesia.	- -	Sugito, 2002.Pendidikan Pancasila Kansil, 2002. Hukum Kewarganegaraan Indonesia. Mustafa,K, 2003.Civics Education Darwan P,2001.Sosialisasi dan diseminasi HAM
4.	Student can identificate democratic sys	stem in	Demokration	-	Source of democration in the world Type of democration Demokration of <i>Pancasila</i> General election in Indonesia.	and the second s	Meriam B, 1992.Dasar-dasar Politik Roger E,2003. Lebih jauh dengan ideologi Komteporer. UU tentang parpol dan pemilu
5.	Mahasiswa dapat menjelaskan per konstitusi dan UUD. Student can explain the difference be kontitution and UUD		Konstitution		Deffinition, nature of, function and characteristic of konstitution Fleksibility of <i>UUD UUD</i> in Indonesia.	-	Meriam B, 1992.Dasar-dasar Politik. Oetoyo Usman,1992. Pancasila sebagai Ideologi Negara Indonesia.
6.	Student can describe relation be Proklamasi, Pembukaan and UUD 19-	etween 45	Sistem of governence in	-	Basic Law and <i>UUD 1945</i> Dimicilling of main thaugt	-	Dardji D, 1992. Santiaji Pancasila.

		Ir	ndonesia	-	Pembukaan UUD 1945 Relation between Pancasila & UUD 1945	-	Tolchah, 1983. Teks Resmi UUD 1945.
7.	Student can illustrate applying pasal-p UUD 1945 in life		Batang Tubuh JUD 1945	-	Main key Governence System High institute of State	-	Marsono, 2002.Susunan dalam satu naskah UUD 1945 dengan perubahannya. Kaelani, 2002.UUD 1945 hasil Amandemen Mudjanto, 1996.Pancasila buku panduan mahasiswa.
8.	Student can mention The function of Institute of State	-	ligh Institute of tate	-	Type Duty and function Dimiciling and its duty	-	Kaelani, 2002.Kajian tentang UUD 1945 setelah diamandemen. Anonim, 2003. Amandemen I, II, III dan IV UUD 1945.
9.	Student can illustrated cause happ amandemen UUD 1945.		Change of UUD 945.	-	Pembukaan UUD 1945 Dimiciling regulation of addition and switchover. Constitution Lawcourt	-	Anonim, 2003. Amandemen I, II, III dan IV UUD 1945. UU no.24/2003. Ttg. Mahkamah Konstitusi.
10.	Student can explain Pancasila as na philosophy		Pancasila Philosophy	-	Definition of Philosophy Value, norm, and ethic based on <i>Pancasila</i> <i>Pancasila</i> philosophy and value system	-	Dardji D, 1996. Penjabaran Nilai Pancasila dalam sistim hukum di Ind. Kaelani 2003. Filsafat Pancasila Sunoto, 2002. Filsafat

and the state of t				Pancasila - Sunarjo,2001.llmu Pancasila Yuridis Kenegaraan
11.	Student can analyse ideology of Pancasila in life	Ideology of Pancasila	- Growth of open ideology - Ideology of <i>Pancasila</i>	 Roger E,2003. Lebih jauh dengan ideologi Komteporer. Dardji D, 2001. Ideologi Pancasila Oetoyo U, 1992. Pancasila sebagai Ideologi Negara.
12.	Student can explain concept of archipelagos knowledge (wawasan nusantara)	Archipelagos knowledge (wawasan nusantara wasantara)	 Definition Fundamental of archipelagos formula Wasantara as national knowledge Element of archipelagos knowledge and its implementation 	 Toto Pandoyo,1994, Wawasan Nusantara & implementasinya Sutarno.1997, Buku Pegangan Mahasiswa Kuliah Kewiraan Safrudin, 1992, PPBN lanjutan
13.	Mahasiswa dapat memberikan gambaran ketahanan nasional Student can describe national defence	National Defence	 Term and fundamental of national defence Elementary concept and scope of <i>Trigatra</i> and <i>Pancagatra</i>. 	 Dirjen Dikti, 1992, Kewiraan untuk Mahasiswa. Frans EL,1985. Pengantar Pend. Kewiraan. Bilver S.1996. Dwi Fungsi ABRI
14.	Student understand concept of national development (pembangunan nasional)	Politic Strategy National	- Definition, function of Polstranas	- UU no. 20.1982 & Kepres no.4.1994

			- Tata Bina Nasional - Outlines of polstranas.	- Sobana, 1996. Kewiraan dalam konsepsi dan implementasinya
15.	Student apply behavior based on life norm.	Ethics life of nation have & state	- Determinant Tap.MPR no.VI dan VII/2001 - Execution method	- Tap MPR
16.	Student get minimum value C.	End semester evaluation	schedule	

CONTRACT LECTURING.

SUBJECT : Education of Civic

CODE : MPK 102 SCS (System Credit Semester) : 3 SCS

SEMÈSTER : I

SUPERVISOR : Drs. Tarsono, M. Kes
LECTURER : 1. Drs. Tarsono, M. Kes
SCHEDULE : 1 day/week, 2 hours

MEETING PLACE :. CAMPUSS PRODI GIZI

1. BENEFIT OF SUBJECT

FORMING PERSONALITY THROUGH CARRYING OUT OF, THINKING, AND CONTINUATION OF VALUE of *PANCASILA* AND HISTORY STRUGGLE OF NATION IN LIFE OF NATION AND STATE......

2. DESCRIPTION

SUBJECT PERSONAL DEVELOPMENT IS GROUP SUBJECT WITH AIM TO DEVELOP HUMAN BEING OF INDONESIA GODFEARING AND RELIGIOUS TO THE TUHAN YANG MAHA ESA

ITS PPKN SUBSTANSI STUDY COVER: BASE AND TARGET OF PPKN, SPB, SYSTEM PUNISH PURSUANT TO PANCASILA AND OF UUD 1945, DYNAMICS EXECUTION OF UUD 1945, PANCASILA AS SYSTEM PHILOSOPHY AND ETHICS, PANCASILA AS IDEOLOGY NATION AND PARADIGM LIFE, AKTUALISASI PANCASILA, RIGHTS OF ASAZI HUMAN BEING, RIGHTS AND OBLIGATIONS CITIZEN OF RI, DEMOCRACY KNOWLEDGE OF ARCHIPELAGOS, RESILIENCE NATIONAL AND POLITICS STRATEGY NATIONAL.

3. INSTRUCTIONAL TARGET GENERAL INSTRUCTIONAL TARGET/ TIU

Having completed this subject, student expected can apply *Pancasila* values and history struggle of nation in executing and duty of responsibility and also rights and obligations as Indonesia citizen

SPESIFIC INSTRUCTIONAL TARGET/ TIK

After following this subject student will be able to:

- 1. analysis fundamenmental and purpose of PPKn
- 2. execution right and obligation as citizen
- 3. comprehend and execution human right according to regulation of constitution
- 4. identificate democratic system in life
- 5. explain the difference between fundamental constitution and convension
- 6. describe relation between Proklamasi, Opening, and Body of UUD 1945
- 7. illustrate application of section of UUID 1945 in real life
- 8. mention the function of high institute state

- 9. explain the happening of amandemen of UUD 1945
- 10. explain Pancasila as nation philosophy
- 11. analyse Pancasila ideology in life
- 12. explain concept of archipelagos knowledge
- 13. describe about National Defence in Indonesia
- 14. understand concept of national development after no more GBHN
- 15. apply attitude in life according to *Pancasila and UUD 1945* value and realize of right and obligation as Indonesian citizen

4. LECTURING STRATEGY

To reach the target of this subject, hence compiled is immeasurable of education media and method. Lecturing method the utilized are

- a. discourse and question and answer
- b duty
- c discuss
- d. problem solving in illustration

5. REFERENCE

The reading are:

- 1. Bambang Daroeso, 1986. Dasar dan Konsep Pendidikan Moral Pancasila. Aneka Ilmu, Smg.
- 2. Oetojo Oesman, 1992. Pancasila sebagai ideologi dalam berbagai bidang kehidupan bermasyarakat, berbangsa dan bernegara, BP 7, Jakarta.
- 3. Dardji D, 1994. Pendidikan Pancasila di PerguruanTinggi, Laboratorium Pancasila IKIM Malang.
- 4. -----, 1978. Santiadji Pancasila, Usaha Nasional, Surabaya.
- 5. -----,1996 Penjabaran nilai-nilai Pancasila dalam Sistem Hukum di Indonesia, Raja Gravindo Perkasa, Jakarta.
- 6. Haji Masagung, 1992. Sistem Administrasi Negara RI
- 7. Meriam B, 1992. Dasar-dasar Ilmu Politik, Gramedia Pustaka Utama, Jakarta
- 8. Moedjanto, dkk, 1996. Pancasila Buku Panduan Mahasiswa. Gramedia Pustaka Utama, Jakarta.
- 9. Marsono, 2002. Susunan dalam satu naskah UUD 945 dengan perubahanperubahannya 1999-2002, Eka Jaya, Jakarta
- 10. Kaelani, 2002. Filsafat Pancasila, Pandangan Hidup Bangsa Indonesia, Paradigma, Yogyakarta.

6. DUTY

- 1. Hand out about Human rigt in Indonesia
- 2. Hand out about *Pilkada* as implementation of democration in Indonesia
- 3. Section of amandemen UUD 1945 discussion material
- 4. Deviding in 10 groups

7. ASSESMENT CRITERIA

Assessment will be conducted by instructor by using the following criteria:

Value	Point	Range
Α	4	80,00-100,00
AB	3,5	75,00-79,00
В	3	70,00-74,99
BC	2,5	65,00-69,99
C	2	60,00-64,99
CD	1,5	55,00-59,99
D	1	50,00-54,99
E	0	<50,00

In determining final value, will be used the following wight

Absence	10,00 %
Mid semester evaluation	25,00 %
End semester evaluation + Duty	50,00.+ 15,00 %

8. SCHEDULE

MEETING	TOPIC	LECTURER
1	Fundamental and purpose of PPKN	
2	Right and Obligation of Indonesia	
	citizen	
3	Human Right	
4	Democration and Pancasila	
	Democration	
5	Constitution, UUD, and convension	
6	Governence System of Indonesia	
7	The Body of UUD 1945	
8	State Institute	
9	High State Institute	
10	Pancasila Philosophy	
11	Ideology and <i>Pancasila</i> Ideology	
12	Archipelagos knowledge	
13	National Defence	
14	POLSTRANAS	Section 2010 and the section 2

15	NATIONAL DEVELOPMENT	
16	Society living ethic, nation have, state have	
		

SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester)

LECTURER

: 3 SCS : Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 1

A. INSTRUCTIONAL TARGET

- 1. TIU: STUDENT CAN ANALYSE THE CONCEPT OF PPKN
- 2. TIK:
 - a. STUDENT CAN EXPLAIN DEFINITION AND TARGET OF PPKN BY OWN WORDS
 - a. STUDENT CAN EXPLAIN FUNDAMENTAL OF PPKN
 - b. STUDENT CAN EXPLAIN THE COMPETENCE OF PPKN
- B. TOPIC: FUNDAMENTAL AND TARGET OF PPKN
- C. SUB TOPIC:
 - 1. DEFINITION.
 - 2. FUNDAMENTAL OF EDUCATION (HISTORIS, CULTURAL, YURIDIS & FILOSOFIS).
 - 3. TARGET OF PPKN
 - 4. COMPETENCE OF PPKN

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA AND INSTRUM ENT
ANTECEDENT	1. Introducing	Reply to absence	Absensce
PRESENTATION	Showing obligated reading book with example book	Giving attention	OHP
	3. Lecturing	Writing, asking, and	OHP
	transparace	discuss	Trans parance
	4. question and answer	asking	
CONCLUTION	5. ordered to read and learn	Giving attention and execution	

- E. EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL **UNCLEAR AND EXPOSTULATED**
- F. REFERENCE: ENCLOSED AT CONTRACT LECTURING.

SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 2

A. INSTRUCTIONAL TARGET

- 1. TIU: STUDENT APPLY RIGHT AND OBLIGATION ACCORDING TO ITS DUTY AND FUNCTION
- 2. TIK:
 - a. STUDENT CAN EXPLAIN THE MEANING OF RESIDENT AND CITIZEN
 - **b. STUDENT CAN EXPLAIN PRINCIPALITY CIVIC**
 - c. STUDENT CAN ILLUSTRATE RIGHT AND OBLIGATION AS CITIZEN IN EFFORT DEFENCE OF STATE ACCORDINGTO HIS/HER PROFFESION
- B. TOPIC: RIGHT AND OBLIGATION OF INDONESIA CITIZEN
- C. SUB TOPIC:
 - 1. THE MEANING OF RESIDENT AND CITIZEN
 - 2. PRINCIPALITY CIVIC
 - 3. RIGHT AND OBLIGATION OF INDONESIA CITIZEN
 - 4. STATE ADVOCATING (BELA NEGARA)

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA AND INSTRUM ENT
ANTECEDENT	Review of lecturing last week	asking	
PRESENTATION	2. Giving lecturing of	Giving attention,	OHP,
	second topic	listenig, and writing	Transpa- ransi
	Question and answer	asking	
CONCLUTION	4. Order to learn and read the refference book	Giving attention	

E. EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL **UNCLEAR AND EXPOSTULATED.**

SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 3

A. INSTRUCTIONAL TARGET

1. TIU : STUDENT CAN EXECUTE HUMAN RIGHT ACCORDING UU NO. 39/1999 ABOUT HUMAN RIGHT

2. TIK

- a. STUDENT CAN EXPLAIN THE GROWTH OF HUMAN RIGHT BY OWN WORDS
- b. STUDENT UNDERSTAND THE INSTRUMENT OF HUMAN RIGHT IN INDONESIA
- c. STUDENT CAN ILLUSTRATE THE EXECUTION OF HUMAN RIGHT IN INDONESIA

B. TOPIC: HUMAN RIGHT

C. SUB TOPIC:

- 1. The meaning and growth of Human Right
- 2. Human Right according to UUD 1945
- 3. The instrument of Human Right in Indonesia
- 4. Implementation of HAM in Indonesia

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA AND INSTRUM ENT
ANTECEDENT	Review of lecturing last week	asking	
PRESENTATION_	2. Giving lecturing of	Giving attention,	OHP,
	third topic	listenig, and writing	Transpa- ransi
	Question and answer	asking	
CONCLUTION	4. Order to learn and read the refference book	Giving attention	

E. EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL UNCLEAR AND EXPOSTULATED.

SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 4

A. INSTRUCTIONAL TARGET

- 1. TIU : STUDENT CAN IDENTIFICATE DEMOCRATIC SYSTEM IN INDONESIA
- 2. TIK:
 - a. STUDENT CAN IDENTIFICATE DEMOCRATIC SYSTEM IN THE WORLD.
 - b. STUDENT CAN EXPLAIN TYPE OF DEMOCRATION
 - c. STUDENT CAN EXPLAIN THE EXECUTION OF GENERAL ELECTION (PEMILU) IN INDONESIA
- **B. TOPIC: DEMOCRATION**
- C. SUB TOPIC:
 - 1. Source of democration in the world
 - 2. Type of democration
 - 3. Democration of Pancasila
 - 4. Pemilu & Pilkada in Indonesia

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA AND INSTRUM ENT
ANTECEDENT	Review of lecturing last week	asking	
PRESENTATION	2. Giving lecturing of	Giving attention,	OHP,
	tirth topic	listenig, and writing	Transpa- ransi
	Question and answer	asking	
CONCLUTION	4. Order to learn and read the refference book	Giving attention	

E. EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL UNCLEAR AND EXPOSTULATED.

UNIT of EVENT INSTRUCTION

(SATUAN ACARA PENGAJARAN SAP)

SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 5

A. INSTRUCTIONAL TARGET

- 1. TIU: STUDENT CAN EXPLAIN THE DIFFERENCE BETWEEN CONTITUTION, UUD, AND CONVENSION
- 2. TIK:
 - a. STUDENT CAN EXPLAIN THE MEANING OF KONSTITUTION, UUD, CONVENSION BY OWN WORDS
 - b. STUDENT CAN EXPLAIN NATURE AND FUNCTION AND CHARACTERISTIC OF CONTITUTION
 - c. STUDENT CAN EXPLAIN FLEXIBILITY OF CONSTITUTION AND UUD
- **B. TOPIC: KONSTITUSI DAN UUD**
- C. SUB TOPIC:
 - 1. THE MEANING
 - 2. NATURE AND FUNCTION AND CHARACTERISTIC OF CONTITUTION
 - 3. FLEXIBILITY OF CONSTITUTION AND UUD
 - 4. UUD IN INDONESIA

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA AND INSTRUM ENT
ANTECEDENT	Review of lecturing last week	asking	
PRESENTATION	2. Giving lecturing of fourth topic	Giving attention, listenig, and writing	OHP, Transpa- ransi
	Question and answer	asking	
CONCLUTION	4. Order to learn and read the refference book	Giving attention	

E. EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL UNCLEAR AND EXPOSTULATED.

F. REFERENCE: ENCLOSED AT CONTRACT LECTURING.

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SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester)

:3 SCS

LECTURER

: Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 6

A. INSTRUCTIONAL TARGET

1. TIU: STUDENT CAN DESCRIBE RELATION BETWEEN PROKLAMASI, OPENING AND THE BODY OF UUD 1945

2. TIK:

a. STUDENT CAN EXPLAIN BASIC LAW OF INDONESIA

b. STUDENT CAN EXPLAIN POSITION OF OPENING OF UUD 1945

C. MAHASISWA DAPAT MENJELASKAN HUBUNGAN PANCASILA DAN UUD 1945STUDENT CAN EXPLAIN RELATION BETWEEN PANCASILA AND UUD

B. TOPIC: GOVERNENCE SYSTEM OF INDONESIA

C. SUB TOPIC:

- a. Basic law and UUD 1945
- b. Position of Opening UUD 1945
- c. Main idea of Opening UUD 1945
- d. Relation between Pancasila and UUD 1945

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA AND INSTRUM ENT
ANTECEDENT	Review of lecturing last week	asking	
PRESENTATION	Giving lecturing of fivth topic	Giving attention, listenig, and writing	OHP, Transpa- ransi
	Question and answer	asking	
CONCLUTION	4. Order to learn and read the refference book	Giving attention	
ANTECEDENT	Review of lecturing last week	asking	

E EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL UNCLEAR AND EXPOSTULATED

SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester)

: MPK102

LECTURER

: Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 7

- A. INSTRUCTSIONAL TARGET

 1. TIU: STUDENT CAN EXPLAIN MAIN XEY OF GOVERNENCE SYSTEM IN INDONESIA
 - 2. TIK:
 - a. STUDENT CAN EXPLAIN DEFINITION OF GOVERNENCE SYSTEM IN INDONESIA
 - b. STUDENT CAN EXPLAIN INSTITUTE SYSTEM IN INDONESIA
 - c. STUDENT CAN EXPLAIN FUNTION AND POSITION OF STATE HIGH INSTITUTE
- **B. TOPIC: KONSTITUTION & UUD**
- C. SUB TOPIC:
 - 1. MAIN KEY OF GOVERNENCE SYSTEM IN INDONESIA
 - 2 STATE HIGH INSTITUTE
 - 3. FUNCTION OF STATE HIGH INSTITUTE
 - 4. POSITION OF STATE HIGH INSTITUTE

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA AND INSTRUM ENT
ANTECEDENT	Review of lecturing last week	asking	
PRESENTATION	Giving lecturing of fourth topic	Giving attention, listenig, and writing	OHP, Transpa-
			ransi
	Question and answer	asking	
CONCLUTION	4. Order to learn and read the refference book	Giving attention	
ANTECEDENT	Review of lecturing last week	asking	

E EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL UNCLEAR AND EXPOSTULATED

SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 8

A. INSTRUCTIONAL TARGET

1. TIU: STUDENT CAN EXPLAIN PRECISELY STATE HIGH INSTITUTE IN INDONESIA

2. TIK:

- a. STUDENT CAN MENTION PRECISELY STATE HIGH INSTITUTE
- b. STUDENT CAN EXPLAIN DUTY OF STATE HIGH INSTITUTE IN INDONESIA
- c. STUDENT CAN EXPLAIN POSITION OF STATE HIGH INSTITUTE IN INDONESIA.
- **E. TOPIC: STATE HIGH INSTITUTE.**
- C. SUB TOPIC:
 - 1. TYPE OF STATE HIGH INSTITUTE
 - 2. DUTY AND FUNCTION OF EACH HIGH INSTITUTE
 - 3. POSITION OF STATE HIGH INSTITUTE
 - 4. COUNCIL DELEGATION OF AREA (DPD)

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA AND INSTRUM ENT
ANTECEDENT	Review of lecturing last week	asking	
PRESENTATION	2. Giving lecturing of seventh topic	Giving attention, listenig, and writing	OHP, Transpa-
			ransı
	3. Question and answer	asking	1 1
CONCLUTION	4. Order to learn and read the refference book	Giving attention	
ANTECEDENT	Review of lecturing last week	asking	

E EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL UNCLEAR AND EXPOSTULATED

SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester) : 3 SCS

LECTURER

: Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 9

A. INSTRUCTIONAL TARGET

 TIU: STUDENT CAN ILLUSTRATED BECAUSE THE HAPPENING OF **AMANDEMEN UUD 1945.**

2. TIK:

- a. STUDENT CAN EXPLAIN POSITION OF OPENING OF UUD 1945 IN LAW SYSTEM INDONESIA
- b. STUDENT EXPLAIN POSITION OF TRANSITORY REGULATION of UUD 1945.
- c. STUDENT CAN EXPLAIN DUTY AND POSITION OF LAWCOURT CONSTITUTION IN SYSTEM OF JUDICATURE IN INDONESIA.

B. TOPIC: CHANGE OF UUD 1945 (AMANDEMEN)

C. SUB TOPIC:

- 1. OPENING UUD 1945
- 2. POSITION OF TRANSITORY REGULATION of UUD 1945.
- 3. CONSTITUTION LAWCOURT
- 4. LAWCOURT CONSTITUTION IN SYSTEM OF JUDICATURE IN INDONESIA.

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA AND INSTRUM ENT
ANTECEDENT	Review of lecturing last week	asking	
PRESENTATION	Giving lecturing of eight topic	Giving attention, listenig, and writing	OHP, Transpa- ransi
	3. Question and answer	asking	
CONCLUTION	4. Order to learn and read the refference book	Giving attention	
ANTECEDENT	Review of lecturing last week	asking	

- E EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL UNCLEAR AND EXPOSTULATED
- F REFERENCE: ENCLOSED AT CONTRACT LECTURING.

SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 10

A. INSTRUCTIONAL TARGET

1. TIU: STUDENT CAN ILLUSTRATED PANCASILA AS PHILOSOPHY NATION SYSTEM

2. TIK:

- a. STUDENT UNDERSTAND PHILOSOPHY AND PHILOSOPHY SYSTEM
- b. STUDENT CAN EXPLAIN VALUE, NORM, AND ETHIC BASED ON PANCASILA
- c. STUDENT CAN EXPLAIN PANCASILA PHILOSOPHY AND VALUE SYSTEM

B. TOPIC: CONSTITUTION AND UUD

C. SUB TOPIC:

- 1. DEFINITION
- 2. PHILOSOPHY SYSTEM AND PHILOSOPHY
- 3. VALUE, NORM, AND ETHIC IN LIFE
- 4. PANCASILA PHILOSOPHY AND VALUE SYSTEM

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA AND INSTRUM ENT
ANTECEDENT	Review of lecturing last week	asking	
PRESENTATION	2. Giving lecturing of ninth topic	Giving attention, listenig, and writing	OHP, Transpa- ransi
	Question and answer	asking	
CONCLUTION	4. Order to learn and read the refference book	Giving attention	
ANTECEDENT	Review of lecturing last week	asking	

- E EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL UNCLEAR AND EXPOSTULATED
- F REFERENCE: ENCLOSED AT CONTRACT LECTURING.

SUBJECT : Education of Civic

CODE : MPK102
SCS (System Credit Semester) : 3 SCS
LECTURER : Tarsono
TIME MEETING : 100 Minutes

MEETING : 11

A INSTRUCTIONAL TARGET

- 1. TIU: STUDENT CAN ANALYSE IDEOLOGY IN WORLD AND PANCASILA IDEOLOGY
- 2. TIK:
 - a. STUDENT CAN EXPLAIN GROWTH OF IDEOLOGY IN THE WORLD
 - b. STUDENT CAN EXPLAIN OPEN IDEOLOGY
 - c. STUDENT CAN EXPLAIN PANCASILA IDEOLOGY

BTOPIC: PANCASILA IDEOLOGY

C. SUB TOPIC:

- 1. DEFINITION AND GROWTH OF IDEOLOGY
- 2. OPEN/CLOSED IDEOLOGY
- 3. PANCASILA IDEOLOGY
- 4. PANCASILA IDEOLOGY AS NATION PHILOSOPHY

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA AND INSTRUM ENT
ANTECEDENT	Review of lecturing last week	asking	
PRESENTATION	2. Giving lecturing of tenth topic	Giving attention, listenig, and writing	OHP, Transpa- ransi
	Question and answer	asking	
CONCLUTION	4. Order to learn and read the refference book	Giving attention	
ANTECEDENT	Review of lecturing last week	asking	

E EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL UNCLEAR AND EXPOSTULATED

SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester)

:3 SCS

LECTURER

: Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 12

A. INSTRUCTIONAL TARGET

- 1. TIU: STUDENT CAN DESCRIBE CONCEPT OF ARCHIPELAGOS KNOWLEDGE
- 2. TIK:
 - a. STUDENT CAN DESCRIBE DEFINITION OF ARCHIPELAGOS KNOWLEDGE BY OWN WORDS
 - b. STUDENT CAN DESCRIBE FUNDAMENTAL OF ARCHIPELAGOS KNOWLEDGE
 - c. STUDENT CAN EXPLAIN FLEXIBILITY OF CONSTITUTION AND UUD
- **B. TOPIC: ARCHIPELAGOS KNOWLEDGE**
- C. SUB TOPIC:
 - 1. Definition of Archipelagos Knowledges
 - 2. Fundamental of Archipelagos Knowledges
 - 3 Archipelagos Knowledges as national knowledge
 - 4. Element of Archipelagos Knowledges
 - 5. Implementation of Archipelagos Knowledges

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA AND INSTRUM ENT
ANTECEDENT	Review of lecturing last week	asking	
PRESENTATION	2. Giving lecturing of eleventh topic	Giving attention, listenig, and writing	OHP, Transpa- ransi
	3. Question and answer	asking	
CONCLUTION	4. Order to learn and read the refference book	Giving attention	
ANTECEDENT	Review of lecturing last week	asking	

E EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL UNCLEAR AND EXPOSTULATED

F REFERENCE : ENGLOSED AT CONTRACT LECTORING.
•

SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 13

A. INSTRUCTIONAL TARGET

- 1. TIU: STUDENT CAN DESCRIBE ABOUT NATIONAL DEFENCE
- 2. TIK:
 - STUDENT CAN DESCRIBE DEFINITION OF NATIONAL a. DEFENCE
 - STUDENT CAN EXPLAIN THE BASIC CONCEPT OF b. NATIONAL DEFENCE AND ITS SCOPE
 - STUDENT CAN EXPLAIN ASTA GATRA OF NATIONAL C. DEFENCE
- **B. TOPIC: NATIONAL DEFENCE**
- C. SUB TOPIC:
 - 1. DEFINITION AND BASIC OF NATIONAL DEFENCE
 - 2. BASIC CONCEPT OF NATIONAL DEFENCE
 - 3. SCOPE OF NATIONAL DEFENCE
 - 4. ASTAGATRA NATIONAL DEFENCE

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA AND INSTRUM ENT
ANTECEDENT	Review of lecturing last week	asking	
PRESENTATION	Giving lecturing of twelfth-topic	Giving attention, listenig, and writing	OHP, Transpa- ransi
	3. Question and answer	asking	
CONCLUTION	4. Order to learn and read the refference book	Giving attention	
ANTECEDENT	Review of lecturing last week	asking	

E EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL

UNCLEAR AND EXPOSTULATED

SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 14

A. INSTRUCTIONAL TARGET

1. TIU: STUDENT CAN EXPLAIN CONCEPT AND EXECUTION OF INDONESIA DEVELOPMENT

2. TIK:

- a. STUDENT CAN DESCRIBE EXECUTION OF INDONESIA
- b. STUDENT CAN EXPLAIN THE MEANING OF TATA BINA NASIONAL
- c. STUDENT CAN EXPLAIN OUTLINES OF NATIONAL POLITIC STRATEGY
- B. TOPIC: NATIONAL POLITIC STRATEGY
- C. SUB TOPIC:
 - 1. DEFINITION
 - 2.NATURE AND FUNCTION OF NATIONAL POLITIC STRATEGY
 - 3. TATA BINA NASIONAL
 - 4. OUTLINES OF NATIONAL POLITIC STRATEGY

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA AND INSTRUM ENT
ANTECEDENT	Review of lecturing last week	asking	and the state of t
PRESENTATION	2. Giving lecturing of tirteenth topic	Giving attention, listenig, and writing	OHP, Transpa- ransi
-	3. Question and answer	asking	
CONCLUTION	Order to learn and read the refference book	Giving attention	
ANTECEDENT	Review of lecturing last week	asking	

E EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL UNCLEAR AND EXPOSTULATED

SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 15

A. INSTRUCTIONAL TARGET

- 1. TIU: STUDENT HAVING BEHAVIOR BASED ON LIFE NORMS
- 2. TIK:
 - a. STUDENT CAN DESCRIBE FACTORS WHICH HAVE INFLUENCE IN SOCIETY LIFE
 - b. STUDENT CAN EXPLAIN VISION OF INDONESIA IN 2020
 - c. STUDENT CAN EXPLAIN METHOD EXECUTION OF LIFE OF BEING SOCIETY, NATION AND STATE
- **B. TOPIC: ETHICS LIFE OF NATION**
- C. SUB TOPIC:
 - 1. Factirs which have influence in society Ife
 - 2. Tap MPR no.VI / MPR / 2001
 - 3. Tap MPOR. No. VII/MPR/2001
 - 4. Method execution of life of being society, nation and state

D. LECTURING ACTIVITY

ACTIVITY PHASSE	LECTURER ACTIVITY STUDENT ACTIVITY		MEDIA AND INSTRUM ENT
ANTECEDENT	Review of lecturing last week	asking	
PRESENTATION	2. Giving lecturing of fourteenth topic	Giving attention, listenig, and writing	OHP, Transpa- ransi
	3. Question and answer	asking	
CONCLUTION	4. Order to learn and read the refference book	Giving attention	

E EVALUATION: GIVING OPPORTUNITY TO ASK MATTER WHICH STILL UNCLEAR AND EXPOSTULATED

UNIT of EVENT INSTRUCTION

(SATUAN ACARA PENGAJARAN SAP)

SUBJECT

: Education of Civic

CODE

: MPK102

SCS (System Credit Semester)

: 3 SCS

LECTURER

: Tarsono

TIME MEETING

: 100 Minutes

MEETING

: 16

A. INSTRUCTIONAL TARGET

1. TIU: STUDENT GRADUATE WITH VALUE A

2. TIK: STUDENT CAN DO QUESTION TEST BETTER AS

ACCORDING TO COMAND

B. TOPIC: ALL OF TOPIC

C. SUB TOPIC:

1. THEORY

2. DUTY

3. ABSENCE

D. LECTURING ACTIVITY

ACTIVITY PHASSE	I ECTIDED ACTIVITY		MEDIA AND INSTRUM ENT
ANTECEDENT	DEVIDING TEST PAPER	WRITE NAME AND TEST NUMBER	
PRESENTATION	PASSING IN TO DO AND TAKE CARE OF TEST	DOING TEST	COPY TEST
CONCLUTION	COLLECTING TEST RESULT	TEST PAPER BROUGHT TO HOME FOR THE	
		STABILIZATION OF RESULT TEST	

E EVALUATION: TEST RESULT AS SUCCES INDICATOR

OUTLINES PROGRAM EDUCATION GARIS BESAR PROGRAM PEMBELAJARAN (GBPP)

SUBJECT

: ELEMENTARY NUTRITION SCIENCE (ILMU GIZI DASAR)

CODE/SCS

: KUG114/3 SCS

DESCRIPTION

Elementary Nutrition Science represent nutrition studying about elementary nutrient interconnected with health of body covering: history growth of nutrition, congeniality, nature of, function, source of, requirement and sufficiency of nutrient

GENERAL INSTRUCTIONAL

TARGET (TIU)

: Student will able to combine basic concept of Elementary Nutrition Science to constitutoing and to explain concept in Nutrition Science

NO	SPECIFIC	TOPIC	SUB TOPIC	TIME	REFFERENCE
	INSTRUCTIONAL TARGET (171K)				
1	After following this	Introducing	History of Nutrition Science	1 x 150	1. Sunita Almatsier, <i>Prinsip Ilmu Gizi Dasar</i> , Gramedia Pustaka
	lecturing, student of first semester Program Study	Nutrition Science	GrowthDefinition/terminology, field	a bearing and a second and a se	Utama, Jakarta, 2003
	Nutrition Science will be		study, classification of		2. Whitney Rolfes, Eleanor Noss,
	able to explain elementary		nutrition		Understanding Nutrition, Ninth
	nutrition science minimum		• Philosophy		Edition, Wadworth group, 2002 3. Suharjo, Clara M Kusharto,
	80 % correct		Classification and analyse of nutrient		Prinsip – Prinsip Ilmu Gizi, 1982
2	After following this lecturing, student of first	digestive, absorption,	Anatomi of digestiv tract ingestion	1 x 150	1. Sunita Almatsier, <i>Prinsip Ilmu Gizi Dasar</i> , Gramedia Pustaka Utama,

	·				
3	semester Program Study Nutrition Science will be able to explain basic concept of digestive, absorption, and transportation of nutrient minimum 80 % correct. After following this lecturing, student of first semester Program Study Nutrition Science will be able to explain basic concept of metabolism, transformation & interaction of nutrient minimum 80 % correct	metabolism, transformation & interaction	 Absorption process on intestinal cells vasculer system limphatic system regulation of ingestin\on and absorption through hormone and nerve system Resolving various of nutrient (covering: glucose, gliserol, faty acid, amino acid) becoming energi 	1 x 150	Jakarta, 2003 2. Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002 3. Suharjo, Clara M Kusharto, Prinsip – Prinsip Ilmu Gizi, 1982 1. Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003 2. Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002 3. Suharjo, Clara M Kusharto, Prinsip – Prinsip Ilmu Gizi, 1982
4	After following this lecturing, student of first semester Program Study Nutrition Science will be able to explain basic concept of nutrition science about energy minimum 80 % correct	Energy	 Metabolism, value & interaction of nutrient producing energy Function Basal metabolism SDA Physical Actifity Requirement- sufficiency 	1 x 150	 Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003 Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002 Suharjo, Clara M Kusharto, Prinsip Prinsip Ilmu Gizi, 1982

5	After following this lecturing, student of first semester Program Study Nutrition Science will be able to explain basic concept of nutrition science about carbohydrat minimum 80 % correct	Carbohydrat	 Source Definition, classification Nature of physical & chemical Function Fermentation, broowning reaction Fiber Balance/homeostasis Requirement- sufficiency Source 	2 x 150	 Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003 Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002 Suharjo, Clara M Kusharto, Prinsip - Prinsip Ilmu Gizi, 1982
6	After following this lecturing, student of first semester Program Study Nutrition Science will be able to explain basic concept of nutrition science about fat minimum 80 % correct	Fat	 Definition, classification Nature of physical & chemical Fucntion Fatty acid Essensial fatty acid Effect of insuffiency – excess Requirement- sufficiency Source 	2 x 150	 Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003 Whitney Rolfès, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002 Suharjo, Clara M Kusharto, Prinsip Prinsip Ilmu Gizi, 1982

7	After following this lecturing, student of first semester Program Study Nutrition Science will be able to explain basic concept of nutrition science about protein minimum 80 % correct	Protein	 Definition, classification Nature of physical & chemical Function Amino acid Essensial amino acid Quality of protein (NPU,PS,etc) Effect of supplementation, komplementation Requirement- sufficiency Source 	1 x 150	 Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003 Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002 Suharjo, Clara M Kusharto, Prinsip - Prinsip Ilmu Gizi, 1982
8	After following this lecturing, student of first semester Program Study Nutrition Science will be able to explain basic concept of nutrition science about vitamin minimum 80 % correct	Vitamin	 Definition, classification Vitamin dissolve in fat Vitamin dissolve in water Nature of physical & chemical Function Effect of insuffiency – excess Source 	2 x 150	 Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003 Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002 Suharjo, Clara M Kusharto, Prinsip – Prinsip Ilmu Gizi, 1982
9	After following this lecturing, student of first semester Program Study Nutrition Science will be able to explain basic concept of nutrition science	Body liquid	 Nature of physical & chemical Function Balance/homeostasis Requirement- sufficiency 	1 x 150	 Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003 Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002

	about liquid minimum 80 % correct				3. Suharjo, Clara M Kusharto, Prinsip – Prinsip Ilmu Gizi, 1982
10	After following this lecturing, student of first semester Program Study Nutrition Science will be able to explain basic concept of nutrition science about mineral minimum 80 % correct	Mineral	 Definition, classification Macromineral & micromineral Nature of physical & chemical Function Effect of insuffiency – excess Source 	1 x 150	 Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003 Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002 Suharjo, Clara M Kusharto, Prinsip - Prinsip Ilmu Gizi, 1982
11	After following this lecturing, student of first semester Program Study Nutrition Science will be able to explain basic concept of nutrition science about mother milk (ASI) minimum 80 % correct	ASI & Analyses of food stuff	 Anatomy of glandula mamae Definition of ASI Change phase of ASI Benefit of breastfeeding Compare of ASI dan cow milk Bingung puting Position of giving breastfed Definition of food stuf changer Benefit of food stuf changer The use of food stuf changer arange daily menu based on food stuf changer 	1 x 150	 Sunita Almatsier, Prinsip Ilmu Gizi Dusar, Gramedia Pustaka Utama. Jakarta, 2003 Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002 Suharjo, Clara M Kusharto, Prinsip - Prinsip Ilmu Gizi, 1982

CONTRACT LECTURING.

SUBJECT

: ILMU GIZI DASAR

CODE

: KUG114

SCS

: 3 SCS

SEMESTER

: I

SUPERVISOR

: dr. Yekti Wirawanni : 1. dr. Enny Probosari

LECTURER

2. dr. Lidva Diah Wulandari

3. dr. Hesti Murwani

SCHEDULE

: Wednesday 10.40 - 13.10

MEETING PLACE

: Room D

1. BENEFIT

Student will be able to comprehend elementary nutrient related to health of body covering: history growth of nutrition, congeniality, nature of, function, source of, requirement and sufficiency of nutrient, so that can unite elementary concept of nutrition science to constitute and formulate concept in next nutrition science

2. DESCRIPTION

Elementary Nutrition represent nutrition studying about ϵ lementary nutrient related to health of body covering: history growth of nutrition, congeniality, nature of, function, source of, requirement and sufficiency of nutrient

3. INSTRUCTIONAL TARGET

TIU

Having completed this subject, student expected can unite elementary concept nutrition science to constitute and formulate concept in next nutrition science

TIK

After following this study student will be able to :

- 1. explain basic nutrition science minimum 80 % corret
- 2. explain basic concept of digestive, absorption, and transportation of nutrient minimum 80 % correct
- 3. explain basic concept of metabolism, transformation & interaction of nutrient minimum 80 % correct
- 4. explain basic concept of energy minimum 80 % correct
- 5. explain basic concept of carbohydrat minimum 80 % correct
- 6. explain basic concept of lipidt minimum 80 % correct
- 7. explain basic concept of proteint minimum 80 % correct
- 8. explain basic concept of vitamin minimum 80 % correct

- 9. explain basic concept of body liquidt minimum 80 % correct
- 10. explain basic concept of mineral minimum 80 % correct
- 11. explain basic concept of ASI minimum 80 % correct
- 12. arrange menu 80% correct

4. LECTURING STRATEGY

To reach the target of this subject, hence compiled is immeasurable of education media and method. Method lecturing used are discourse, question and answer, discussion

Book / fundamental reading in this lecturing are]:

- 1. Sunita Almatsier, *Prinsip Ilmu Gizi Dasar*, Gramedia Pustaka Utama, Jakarta, 2003
- 2. Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002
- 3. Suharjo, Clara M Kusharto, Prinsip prinsip ilmu gizi, 1982

5. DUTY

arrange daily menu

6. ASSESMENT CRITERIA

Assesment will be conducted by instructur with following criteria:Penilaian akan dilakukan oleh pengajar dengan menggunakan kriteria sebagai berikut:

Value	Point	Range
A	4	≥ 80
В	3	70 - 79
C	2	60 - 69
D	1	50 - 59
E	0	≤ 49

In determining final value, will be used the following wight:

Absence	minimum 75%
Mid semester evaluation	25 %
End semester evaluation	75 %

7. SCHEDULE

No	LECTURE AT	Topic	Way of teaching	Lecturer
1	I	Introduction of Nutrition Science	Discourse & Discuss	dr. Yekti Wirawanni
2	II	Digestion, absorption & transportation	Discourse & Discuss	dr. Hesti Murwani
3	Ш	Metabolism,transformation & interaction	Discourse & Discuss	dr. Enny Probosari
4	IV	Energy ballance	Discourse & Discuss	dr. Lidya Diah
5	V	carbohydrat	Discourse & Discuss	dr. Lidya Diah
6	VI	carbohydrat	Discourse & Discuss	dr. Lidya Diah
7	VII	Lipid	Discourse & Discuss	dr. Lidya Diah
8	Allegaria	Mid semester	Discourse & Discuss	
9	VIII	Lipid	Discourse & Discuss	dr. Lidya Diah
10	IX	Protein	Discourse & Discuss	dr.Enny Probosari
11	X	Vitamin dissolve in water	Discourse & Discuss	dr.Enny Probosari
12	XI	Vitamin dissolve in lipid	Discourse & Discuss	dr.Enny Probosari
13	XII	Body liquid	Discourse & Discuss	dr. Hesti Murwani
14	XIII	Mineral	Discourse & Discuss	dr. Hesti Murwani
15	XIV	ASI dan Analisis of foof stuff	Discourse & Discuss	dr. Yekti Wirawanni
16		Silence Week		Constitution (Constitution)
17		End Semester Evaluation		

UNIT of EVENT INSTRUCTION

(SATUAN ACARA PENGAJARAN SAP)

SUBJECT

: ELEMENTARY NUTRITION SCIENCE

CODE

: MPK102

TIME MEETING

: 1 X 150 Minutes

MEETING

: 1

TARGET

TIU: Student will be able to unite elementary concept of nutrition to constitute and formulate concept in next nutrition science

TIK: After following this lecturing, student of first semester Nutrition Science will be able to explain minimum nutrition bases 80 % correct

A. TOPIC: Introduction of Nutrition Science

B. SUB TOPIC:

- History of Nutrition Science Growth
- Definition/ terminology, field study, classification of nutrient
- Philosophy
- Classification and analysis of nutrient

C. LECTURING ACTIVITY

Activity Phase	Lecturing Activity	Student Activity	Media and Instrument
Antecedent	Explaining items coverage Recognition of nutrition science	Giving attention	LCD Projector
	2. Explain benefit of learning Introduction of Nutrition Science3. explain competence of TIU and TIK		
Presentatio	Explaining History growth of Definition nutrition terminology, study area, subdividings of nutrition, Philosophy,	Giving attention, asking	White board & LCD Projector
	Classification and analysis of nutrient 2. Giving some examples 3. Giving exercise		
Conclution	 Giving question about introduction of nutrition science Clarification to student answer to assess 	- Discuss - Answer	White board & LCD Projector

domination storey level to items which	- Enquire again about
have been given.	unclear items
 3. Identifying difficulty which still felt by	
student.	

D. EVALUATION

Giving formative tes in the form of short question forwarding of items of study

E. REFERENCE

- 1. Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003
- 2. Whitney Rolfes, Eleanor Noss, *Understanding Nutrition*, Ninth Edition, Wadworth group, 2002
- 3. Suharjo, Clara M Kusharto, Prinsip –prinsip ilmu gizi, 1982

UNIT of EVENT INSTRUCTION

(SATUAN ACARA PENGAJARAN SAP)

SUBJECT : ELEMENTARY NUTRITION SCIENCE

CODE : MPK102

TIME MEETING : 1 X 150 Minutes

MEETING : 2

TARGET

TIU: Student will be able to unite elementary concept of nutrition to constitute and formulate concept in next nutrition science

TIK: After following this lecturing, student of first semester Nutrition Science will be able to explain basic concept of digestion, absorption, and transportation of nutrient minimum

80% correct

A. TOPIC: Digestión, absorption, and transportation

B. SUB TOPIC:

- Anatomy of tractus digestivus
- Ingestion
- Absorption process on intestinal cells
- Vascular system
- Lymphatic system
- Regulation of ingestion and absorption through hormone and nerve system

C. LECTURING ACTIVITY

Activity Phase	Lecturing Activity	Student Activity	Mcdia and Instrument
Antecede	1. Explain matery about digestion, absorption, and transportation	Giving attention	LCD Projector
	2. Explain benefit of learning digestion, absorption, and transportation3. Explain competence of TIU and TIK		
-	relavansi		
Presentati	o 1. Explain Anatomy of digestiv tract,	Giving attention,	White board &
n	Ingestion, absorption process on intestinal cell, vasculer system, lymphatic system, regulation of ingestion and absorption through hormone and nerve system 2. Giving some example		LCD Projector

	3. Giving Exercise		
Conclution	1. Giving questin about digestion, absorbtion	- Discuss	White hoard &
į	& transportation	- Answer	LCD Projector
	2. Clarification to student answer to assess		
	domination storey; level to items which	- Enquire again about	
	have been given.	unclear items	
	3. Identifying difficulty which still felt by student		

D. EVALUATION

Giving formative tes in the form of short question forwarding of items of study

F. REFERENCE

- 4. Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003
- 5. Whitney Rolfes, Eleanor Noss, *Understanding Nutrition*, Ninth Edition, Wadworth group, 2002
- 6. Suharjo. Clara M Kusharto, Prinsip prinsip ilmu gizi, 1982

UNIT of EVENT INSTRUCTION

(SATUAN ACARA PENGAJARAN/SAP)

SUBJECT

: ELEMENTARY NUTRITION SCIENCE

CODE

: MPK102

TIME MEETING

: 1 X 150 Minutes

MEETING

: 3

TARGET

TIU: Student will be able to unite elementary concept of nutrition to constitute and formulate concept in next nutrition science

TIK: After following this lecturing, student offirst semester Nutrition Science will be able to explain basic concept of metabolism, transformation, and interaction of nutrient minimum 80% correct

- A. TOPIC: metabolism, transformation, and interaction
- B. SUB TOPIC:

Resolving various means of nutrient (include glucose, gliserol, fatty acid, amino acid,) become energy

C. LECTURING ACTIVITY

Activity Phase	Lecturing Activity	Student Activity	Media and Instrument
Antecedent	Explain matery about metabolism, transformation, and interaction	Giving attention	LCD Projector
	2. Explain benefit of learning metabolism, transformation, and interaction		
	3. Explain competence of TIU and TIK/ relavansi		
Presentatio	1.Explain Resolving various means of	Giving attention,	White board &
n	nutrient (include glucose, gliserol, fatty acid,	asking	LCD Projector
	amino acid,) become energy		
***************************************	2 Giving some example		
	3 Giving Exercise		
Conclution	1 Giving questin about digestion, absorbtion	- Discuss	White board &
	& transportation	- Answer	LCD Projector
:	2 Clarification to student answer to assess		
	domination storey; level to items which	- Enquire again about	
	have been given.	unclear items	

3 Identifying difficulty which still felt by	
student	

Giving formative tes in the form of short question

- 1. Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003
- 2. Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002
- 3. Suharjo, Clara M Kusharto, Prinsip prinsip ilmu gizi, 1982

SUBJECT

: ELEMENTARY NUTRITION SCIENCE

CODE

: MPK102

TIME MEETING

: 1 X 150 Minutes

MEETING

: 4

TARGET

TIU: Student will be able to unite elementary concept of nutrition to constitute and formulate concept in next nutrition science

TIK: After following this lecturing, student offirst semester Nutrition Science will be able to explain basic concept of energy minimum 80% correct

TOPIC: ENERGY Α

SUB TOPIC: В

- Metabolism, value, & interaction of nutrient producer energy
- Function
- Basal metabolism
- SDA
- Physical Activity
- Effect of insuffiency excess
- Requirement-sufficiency
- Source

Activity Phase	Lecturing Activity	Student Activity	Media and Instrument
Antecedent	 Explain matery about energy Explain benefit of learning energy Explain competence of TIU and TIK/ 	Giving attention	LCD Projector
Presentatio n	1.Explain Metabolism, value, & interaction of nutrient producer energy, Function,Basal metabolism,SDA,Physical Activity, Effect of insufficiency – excess, Requirement-sufficiency, Source 2. Giving example of food producer energy	asking	White board & LCD Projector

3. Giving exercise	
Conclution I Giving questin about energy 2 Clarification to student answer to assess domination storey; level to items which have been given. 3 Identifying difficulty which still felt by student.	White board & LCD Projector

Giving formative tes in the form of short question forwarding of items of study

- 4. Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003
- 5. Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002
- 6. Suharjo, Clara M Kusharto, Prinsip prinsip ilmu gizi, 1982

SUBJECT

: ELEMENTARY NUTRITION SCIENCE

CODE

: MPK102

TIME MEETING

: 1 X 150 Minutes

MEETING

:5 & 6

TARGET

TIU: Student will be able to unite elementary concept of nutrition to constitute and formulate concept in next nutrition science

TIK: After following this lecturing, student offirst semester Nutrition Science will be able to explain basic concept of carbohydrat minimum 80% correct

A TOPIC: carbohydrat

B SUB TOPIC:

- Deffinition, classification
- Function
- Nature of phisic and chemic
- Fiber
- Balance/ homeostasis
- Requirement- sufficiency
- Source

Activity Phase	Lecturing Activity	Student Activity	Media and Instrument
Antecedent	 Explain matery about carbohydrat Explain benefit of learning carbohydrat Explain competence of TIU and TIK/ relavansi 	Giving attention	LCD Projector
-Presentatio- n	1.Explain Deffinition, classification, Function, Nature of phisic and chemic, Fiber, Balance/homeostasis, Requirement-sufficiency, Source 2. Giving example of food producer carbohydrat 3. Giving exercise	-Giving attention, asking	White board & LCD Projector

Conclution	1 Giving quantin shout and I I I I		
Conclution	1 Giving questin about carbohydrat 2	!	White board &
	Clarification to student answer to assess	- Answer	LCD Projector
	domination storey; level to items which		
	have been given.	- Enquire again about	
	3 Identifying difficulty which still felt by	unclear items	
	student	_	

Giving formative tes in the form of short question forwarding of items of study

- 7. Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003
- 8. Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002
- 9. Suharjo, Clara M Kusharto, Prinsip prinsip ilmu gizi, 1982

UNIT of EVENT INSTRUCTION

(SATUAN ACARA PENGAJARAN SAP)

SUBJECT

: ELEMENTARY NUTRITION SCIENCE

CODE

: MPK102

TIME MEETING

: 1 X 150 Minutes

MEETING

:7 & 8

TARGET

TIU: Student will be able to unite elementary concept of nutrition to constitute and formulate concept in next nutrition science

TIK: After following this lecturing, student offirst semester Nutrition Science will be able to explain basic concept of lipid minimum 80% correct

A TOPIC: lipid

B SUB TOPIC:

- Deffinition, classification
- Function
- Nature of phisic and chemic
- Fatty acid
- Essensial fatty acid
- Balance/ homeostasis
- Requirement- sufficiency
- Source

Activity Phase	Lecturing Activity	Student Activity	Media and Instrument
Antecedent	 Explain matery about lipid Explain benefit of learning lipid Explain competence of TIU and TIK 	Giving attention	LCD Projector
	relavansi		
Presentatio	1.Explain Deffinition, classification,	Giving attention,	White board &
n	Function, Nature of phisic and chemic, Fiber, Balance/homeostasis, Requirement-sufficiency, Source 2. Giving example of food producer lipid 3. Giving exercise	asking	LCD Projector

Conclution	1 Giving questin about lipid	- Discuss	White board &
	2 Clarification to student answer to assess	- Answer	LCD Projector
	domination storey; level to items which		
	have been given.	- Enquire again about	
	3 Identifying difficulty which still felt by student	unclear items	

Giving formative tes in the form of short question

- 1. Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003
- 2. Whitney Rolfes, Eleanor Noss, *Understanding Nutrition*, Ninth Edition, Wadworth group, 2002
- 3. Suharjo, Clara M Kusharto, Prinsip –prinsip ilmu gizi, 1982

UNIT of EVENT INSTRUCTION

(SATUAN ACARA PENGAJARAN/SAP)

SUBJECT

: ELEMENTARY NUTRITION SCIENCE

CODE

: MPK102

TIME MEETING

: 1 X 150 Minutes

MEETING

: 9

TARGET

TIU: Student will be able to unite elementary concept of nutrition to constitute and formulate concept in next nutrition science

TIK: After following this lecturing, student offirst semester Nutrition Science will be able to explain basic concept of protein minimum 80% correct

A TOPIC: protein

B SUB TOPIC:

- Deffinition, classification
- Function
- Nature of phisic and chemic
- Amino acid
- Essensial amino acid
- Quality of protein
- Effect of supplementation, complementation
- Requirement- sufficiency
- Source

Activity Phase	Lecturing Activity	Student Activity	Media and Instrument
Antecedent	Explain matery about protein Explain benefit of learning protein	Giving attention	LCD Projector
	3. Explain competence of TIU and TIK/ relavansi		
Presentatio n	1.Explain Deffinition, classification, Function, Nature of phisic and chemic, classification, quality of protein, effect of supplementation, complementation, Requiren ent- sufficiency, Source	Giving attention, asking	White board & LCD Projector

	Giving example of food producer protein Giving exercise		
Conclution	Giving questin about protein Clarification to student answer to assess domination storey; level to items which	- Discuss - Answer	White board & LCD Projector
	have been given. 3 Identifying difficulty which still felt by student	- Enquire again about unclear items	

Giving formative tes in the form of short question to know efficacy forwarding of items of study

- 1. Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003
- 2 Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002
- 3. Suharjo, Clara M Kusharto, Prinsip prinsip ilmu gizi, 1982

SUBJECT

: ELEMENTARY NUTRITION SCIENCE

CODE

: MPK102

TIME MEETING

: 1 X 150 Minutes

MEETING

: 10 & 11

TARGET

TIU: Student will be able to unite elementary concept of nutrition to constitute and formulate concept in next nutrition science

TIK: After following this lecturing, student of first semester Nutrition Science will be able to explain basic concept of vitamin minimum 80% correct

A TOPIC: vitamin

B SUB TOPIC:

- Deffinition, classification
- Function
- Nature of phisic and chemic
- Vitamin dissolve in water
- Vitamin dissolve in lipid
- Effect of supplementation, complementation
- Requirement- sufficiency
- Source

Activity Phase	Lecturing Activity	Student Activity	Media and Instrument
Antecedent	Explain matery about vitamin	Giving attention	LCD Projector
	2. Explain benefit of learning vitamin		
	3. Explain competence of TIU and TIK/		
	relavansi		
Presentatio	1.Explain Deffinition, Function, Nature of	Giving attention,	White board &
n	phisic and chemic, classification,	asking	LCD Projector
	Requirement- sufficiency		
***************************************	2. Giving example of food producer vitamin		
	3. Explain the difference of vitamin dissolve		
	in water between vitamin dissolve in lipid		

Conclution	1 Giving questin about protein	- Discuss	White board &
	2 Clarification to student answer to assess	- Answer	LCD Projector
	domination storey; level to items which		
	have been given.	- Enquire again about	
	3 Identifying difficulty which still felt by	unclear items	Manual Angelon and
	student		

Giving formative test in the form of short question

- 1. Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003
- 2 Whitney Rolfes, Eleanor Noss, *Understanding Nutrition*, Ninth Edition, Wadworth group, 2002
- 3. Suharjo, Clara M Kusharto, Prinsip -prinsip ilmu gizi, 1982

UNIT of EVENT INSTRUCTION

(SATUAN ACARA PENGAJARAN/SAP)

SUBJECT

: ELEMENTARY NUTRITION SCIENCE

CODE

: MPK102

TIME MEETING

: 1 X 150 Minutes

MEETING

: 12

TARGET

TIU: Student will be able to unite elementary concept of nutrition to constitute and formulate concept in next nutrition science

TIK: After following this lecturing, student of first semester Nutrition Science will be able to explain basic concept of body liquid minimum 80% correct

A TOPIC: body liquid

B SUB TOPIC:

- Function
- Nature of phisic and chemic
- Ballance/ Homestasis
- Requirement- sufficiency

Activity Phase	Lecturing Activity	Student Activity	Media and Instrument
Antecedent	4. Explain matery about body liquid	Giving attention	LCD Projector
	5. Explain benefit of learning body liquid		
	6. Explain competence of TIU and TIK/		
	relavansi		
Presentatio	1.Explain Function, Nature of phisic and	Giving attention,	White board &
n	chemic,ballance/homeostasis, Requirement-	asking	LCD Projector
	sufficiency		
	2. Giving example		
	3. Giving exercise		
Conclution	1 Giving question about body liquid	- Discuss	White board &
	2 Clarification to student answer to assess	- Answer	LCD Projector
	domination storey; level to items which		-
	have been given.	- Enquire again about	

	3 Identifying difficulty which still felt by	y unclear items	
-	student		
		Maria and Automorphisms of Valuation of Marian and Automorphisms of the	

Giving formative test in the form of short question

- 1. Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003
- 2 Whitney Rolfes, Eleanor Noss, *Understanding Nutrition*, Ninth Edition, Wadworth group, 2002
- 3. Suharjo, Clara M Kusharto, Prinsip -prinsip ilmu gizi, 1982

UNIT of EVENT INSTRUCTION

(SATUAN ACARA PENGAJARAN/SAP)

SUBJECT

: ELEMENTARY NUTRITION SCIENCE

CODE

: MPK102

TIME MEETING

: 1 X 150 Minutes

MEETING

: 13

TARGET

TIU: Student will be able to unite elementary concept of nutrition to constitute and formulate concept in next nutrition science

TIK: After following this lecturing, student of first semester Nutrition Science will be able to explain basic concept of mineral minimum 80% correct

A TOPIC: mineral

B SUB TOPIC

- Definition, classification
- Macromideral & micromineral
- Function
- Nature of phisic and chemic
- Requirement- sufficiency
- Source

Activity Phase	Lecturing Activity	Student Activity	Media and Instrument
Antecedent	 Explain matery about mineral Explain benefit of learning mineral 	Giving attention	LCD Projector
	3. Explain competence of TIU and TIK/ relavansi		·
Presentatio	1.Explain Function, Nature of phisic and	Giving attention,	White board &
n	chemic,definition, classification, macromineral, micromineral, Requirement- sufficiency 2. Giving example 3. Giving exercise	asking	LCD Projector
Conclution	1 Giving question about mineral	- Discuss	White board &

ŧ	2 Clarification to student answer to assess	- Answer	LCD Projector
	domination storey; level to items which		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	have been given. 3 Identifying difficulty which still felt by student	- Enquire again about unclear items	

Giving formative test in the form of short question

- 1. Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003
- 2 Whitney Rolfes, Eleanor Noss, Understanding Nutrition, Ninth Edition, Wadworth group, 2002
- 3. Suharjo, Clara M Kusharto, Prinsip prinsip ilmu gizi, 1982

UNIT of EVENT INSTRUCTION

(SATUAN ACARA PENGAJARAN/SAP)

SUBJECT CODE

: ELEMENTARY NUTRITION SCIENCE

: MPK102

TIME MEETING

: 1 X 150 Minutes

MEETING

: 14

TARGET

TIU: Student will be able to unite elementary concept of nutrition to constitute and formulate concept in next nutrition science

TIK: After following this lecturing, student of first semester Nutrition Science will be able to explain basic concept of mother milk (ASI) minimum 80% correct

A TOPIC: ASI AND ANALYSE OF FOOD STUF

B SUB TOPIC:

ASI

- Anatomy of glandula mammae
- Deffinition of ASI
- Change phase of ASI
- Benefit of Breast feeding
- Bingung puting
- Position of breastfed

Activity Phase	Lecturing Activity	Student Activity	Media and Instrument
Antecedent	Explain matery about ASI and food stuff analysis	Giving attention	LCD Projector
	 2. Explain benefit of ASI and food stuff analysis 3. Explain competence of TIU and TIK/ 		
Presentatio n	relavansi 1.Explain - Anatomy of glandula mammae - Deffinition of ASI - Change phase of ASI - Benefit of Breast feeding	Giving attention, asking	White board & LCD Projector

	- Bingung puting - Position of breastfed 2. Explain of lisft of Food Stuff Changer, Benefit of Food Stuff Changer, use of Food Stuff Changer, arrange daily menu based on Food Stuff Changer 3. Giving example 4. Giving exercise		
Conclution	1 Giving question about ASI 2 Clarification to student answer to assess domination storey; level to items which have been given 3 Identifying difficulty which still felt by student	- Discuss - Answer Finquire again about unclear items	White board & LCD Projector

Giving formative test in the form of short question to know efficacy of forwarding of items of study

- 1. Sunita Almatsier, Prinsip Ilmu Gizi Dasar, Gramedia Pustaka Utama, Jakarta, 2003
- 2 Whitney Rolfes, Eleanor Noss, *Understanding Nutrition*, Ninth Edition, Wadworth group, 2002
- 3. Suharjo, Clara M Kusharto, Prinsip -prinsip ilmu gizi, 1982

GARIS-GARIS BESAR PROGRAM PENGAJARAN **OUTLINES PROGRAM EDUCATION**

Anatomy Physiology Nutrition

KUG222/4 II

DESCRIPTION

SEMESTER CODE/SCS SUBJECT

Elementary knowledge about human being body function and structure as supporter of this profession subject and study dynamics and system of homeostatis human being body, body organs and its accessories gland which playing a part in ingestion, absorption, excretion and metabolism of nutrient including exocrine and endocrine gland. Studied also about organs which play a part in fitness of physical like lung, system and heart circulation of and blood of limph and also muscle tissue.

GENERAL INSTRUCTIONAL TARGET

After following this study student can explain the ellementary comprehending about structure and function of human body as supporter of this absorption, metabolism, & excretion of nutrient including endocrine and exocrine glands. Studied also about organs which play a part in fitness proffesion subject and can the system and homeostatis dynamic of human body, body organ, and accesories gland which have role in ingestion, of physical like lung, system and heart circulation of and blood of limph and also muscle tissue.

Refferences	1 Decer anatomi klinis untuk	1. Dasa qualonn with the 12	manasiswa kedoktefan, 0ag 1-3, piohard enell FGC lakarta	2 Dasar fisiologi kedokteran,	Guyton & Hall, EGC, Jakarta	3. Dasar fisiologi kedokteran,	Ganong, EGC. Jakarta	4. Introduction to The Human	Body, Tortora GJ. Wiley	International Edition	Average
Sub Topic	Michigan	 basics of anatomy 	 basics of phisiology 	Skeletal system	 Muskulus system 	Anatomy	 Respiratory organ 	 Function of respiratory 	organ	Anatomy	
Tonic		basics of anatomy	and phisiology	Muskuloskelethal	System	Tracttus	respiratorius			mark limph system and Anatomy	mind system
	No. Specific Instructional Larget	Explain basics of anatomy and phisiology		Can identificate and mentione musculoscelethal	system in human	Can explain anatomy and phisiology of	respiratory tract			drawl to marie Land	Can explain anatomy and phisiology of thinput
	ż	-	-	2	ì	4	1				4

Limph organ and tissue Limph circulation	Anatomy	Structure & division of heart	cabin	 Anatomy of vasculer 	Anatomy	• mouth	 pharink & esophagus 	• gaster	pancreas	Dhusiology	disortion is month	digestion der absorbtion in	gaster	Anatomy	 hepar & vesika velea 	• intestin	• colon	Physiologi	Hepatic function	 digestion dan absorption in 	intestine	digestion dan absorpstion in	colon	nutrition dan metabolism	ğ	 kidneyl – urethra
ımunıty	Cardiovaskuler	system			Tractus	gastrointestinal 1								Tractus	gastrointestinal II	i									Tractus unnarius	
	phisiology of				phisiology of									do vaoloisido)		*								phisiology of urinary	
	Can explain anatomy and	ovaskuler s			Can explain anatomy and	ointestinal t			••••••					Con evaluin anatomy and	ointestinal tract			 							Can explain anatomy and phis	tract
	~				9	>								7	`										 ∞	

Phyisiology • filtration of Glomerolus • reabsorption & tubuler secretion	Physiology	Phisiollogical change on aging: SSP - Coordination of phisiological function - Endokrin system - Cardiovaskuler system - Kidney system - Kidney system - Respiratory system - Asspiratory system - Digestion and absorption of nutrient	Anatomy Embrio period Fetal periode maternal change during pregnancy Phisiology
	Liquid bodi homeostasis		an Anatomy & phisiology of development
	Can explain anatomy and function of liquid body		Can explain anatomy and function of human development
100000	6	10	-

THE PROPERTY OF THE PARTY OF TH														1						A CONTRACTOR OF THE PROPERTY O		
THE PROPERTY OF A PERSON OF THE PROPERTY OF TH	labouring	lactacy	Anatomy	- anatomy of glands	Physiologi	- Hormon action	Anatomy:	- ear	- eye	- nose	- tounge	- skin	Function :	- ear	- eye	- nose	- tounge	- skin				
			crine Endokrin system		~~~		enses Five senses									-			-			
			Can explain anatomy and phisiology of endocrine Endokrin system	Call College			Con explain anatomy and function of five senses		or numan										-			
			12	1			1.3	7														

CONTRACT LECTURING

SUBJECT : ANATOMY PHYISIOLOGY NUTRITION

CODE : KUG222

SCS : 4 SEMESTER : II

SUPERVISOR : dr. YEKTI WIRAWANNI

LECTURER : 1. dr. ETISA ADI MURBAWANI, MSi

2. dr. MARTHA ARDIARIA 3. dr. ENNY PROBOSARI

4. dr. LIDYA DYAH

SCHEDULE: SELASA, PK. 10.30- 13.50 WIB

MEETING PLACE : ROOM D

BENEFIT OF SUBJECT:

After following this subject students are expected can explain physiological process that happened in human body and attributed with metabolism process of nutrient in human body

DESCRIPTION:

Elementary knowledge about human being body function and structure as supporter of profession subject and study dynamics and system of homeostatis human being body, body organs and its accessories gland which playing a part in ingestion, absorption, excretion and metabolism of nutrient the including and endocrine of exocrine. Studied also about organs which play a part in fitness of physical like lung, system and heart circulation of and blood of limph and also muscle tissues.

GENERAL INSTRUCTIONAL TARGET

After attend this lecture, student of semester II of program study S1 Nutrition Science expected can explain elementary knowledge about human body function and structure as supporter of subject profession and can explain dynamics and system of homeostatis human body, body organs and its accessories gland which playing a part in ingestion, absorption, excretion and metabolism of nutrient including endocrine of exocrine. Studied also about organs which play a part in fitness of physical like lung, system and heart circulation of and blood of limph and also muscle tissues.

SPECIFIC INSTRUCTIONALTARGET:

After following this study student will be able to :

- 1. Explain basics of Anatomy and Physiology
- 2. Identificate and mentioned musculoscelethal system in human
- 3. Explain anatomy & function of tractus respiratorius
- 4. Explain anatomy & function limphatic system & imunity
- 5. Explain anatomy & function cardiovaskuler system
- 6. Explain anatomy & function tractus gastrointestinal
- 7. Explain anatomy & function traktus gastrointestinal.

- 8. Explain anatomy & function tractus urinarius
- 9. Explain anatomy & function body liquid
- 10. Explain anatomy & function aging in human
- 11. Explain anatomy & function human growth
- 12. Explain anatomy & function endocrine system
- 13. Explain anatomy & function human senses

STRATEGY

To reach the target of this study, hence lecturing method used are]: discussion and face in class.

REFFERENCES

The refferences are:

- 1. Dasar anatomi klinis untuk mahasiswa kedokteran, bag 1-3, Richard snell. EGC. Jakarta
- 2. Dasar fisiologi kedokteran, Guyton & Hall, EGC, Jakarta
- 3. Dasar fisiologi kedokteran, Ganong, EGC. Jakarta

1. ASSESTMENT CRITERIA

Assesment will be done by lecturer with following criteria: Pedoman Acuan Normatif

Nilai	Point	Range
A	4	
В	3	
C	2	
D	1	
E	0	

In determining final value, will be used the following wight:

Absences	Minimum 75%
Mid semester evaluation	25 %
End semester evaluation + duty	75 %

2. SCHEDULE

MEETING	TOPIC	LECTURER
LECTURE 1	Basics of Anatomy Physiology	dr. Etisa Adi Murbawani,
		M.Si
LECTURE 2	Muskuloskeletal System	dr. Martha Ardiaria
LECTURE 3	Tractus Respiratorius	dr. Enny Probosari
LECTURE 4	limph dan imunity System	dr. Enny Probosari
LECTURE 5	Kardiovaskuler System	dr. Martha Ardiaria
LECTURE 6	Gastrointestinal I System	dr. Lidya Dyah WS
LECTURE 7	Mid Semester Evaluation	Semua Dosen
LECTURE 8	Gastrointestinal II System	dr. Lidya Dyah WS

LECTURE 9	Urinarius System	dr. Martha Ardiaria
LECTURE 10	Liquid & Homeostasis	dr. Lidya Dyah WS
LECTURE 11	Aging (Proses Penuaan)	dr. Etisa Adi Murbawani, M.Si
LECTURE 12	Anatomiy & Physiology of Growth	dr. Etisa Adi Murbawani, M.Si
LECTURE 13	Endokrin System	dr. Enny Probosari
LECTURE 14	Senses	dr. Etisa Adi Murbawani, M.Si
LECTURE 15	Nerve System	dr. Enny Probosari
LECTURE 16	Evaluation	Semua dosen

SUBJECT

: ANATOMY PHYSIOLOGI NUTRITION

CODE

: KUG222

SCS

: 4

SEMESTER

LECTURER

: 11

: 1. dr. Etisa Adi Murbawani, M.Si

SCHEDULE

: 1X

MEETING

: 1

A. INSTRUCTIONAL TARGET

1. TIU

: After following this study, students of second semester are expected can explain the basics of anatomy and phisiology.

2. TIK

: After following this study, students of second semester are

expected can explain and describe the terms in anatomy, structure

& function of human organ

B. TOPIC: Basics of Anatomy Physiology

ACTIVITY PHASE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA & INSTRUMENT
ANTECEDENT	Introducing preface	listening	LCD & discussion
PRESENTATION	Explain topic discussioni	giving attention discussion	LCD & discussion
CONCLUTION	Formatif test	answer question self supporting discussion	LCD & discussion

SUBJECT

: ANATOMY PHYSIOLOGI NUTRITION

CODE

: KUG222

SCS

. NUG

303

: **4** : II

SEMESTER LECTURER

: 1. dr. Martha Ardiaria

SCHEDULE

: 1X

MEETING

: 2

A. INSTRUCTIONAL TARGET

1. TIU

: After following this study, students of second semester are

expected can explain anatomy and phisiology of

musculoscelethal system

2. TIK

: After following this study, students of second semester are

expected can explain and describe musculus system and scelethal

system

B. TOPIC ; musculoscelethal system

ACTIVITY PHASE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA & INSTRUMENT
ANTECEDENT	Introducing preface	listening	LCD & discussion
PRESENTATION	Explain topic discussion	giving attention discussion	LCD & discussion
CONCLUTION	Formatif test	answer question self supporting discussion	LCD & discussion

SUBJECT : ANATOMY PHYSIOLOGI & NUTRITION

CODE : KUG222

SCS : 4 SEMESTER : II

LECTURER : 1. dr. Enny Probosari

SCHEDULE : 1X MEETING : 3

A. INSTRUCTIONAL TARGET

1. TIU : After following this study, students of second semester are

expected can explain anatomy and phisiology of respiratory tract

2. TIK : After following this study, students of second semester are

expected can explain and describe anatomy of respiratory tract,

function of respiratory tract organ

B. TOPIC: respiratory tract C. LECTURING ACTIVITY:

ACTIVITY PHASE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA & INSTRUMENT
ANTECEDENT	Introducing preface	listening	LCD & discussion
PRESENTATION	Explain topic discussion	giving attention discussion	LCD & discussion
CONCLUTION	Formatif test	answer question self supporting discussion	LCD & discussion

SUBJECT : ANATOMY PHYSIOLOGI NUTRITION

CODE : KUG222

SCS :4

SEMESTER : II

LECTURER : 1. dr. Enny Probosari

SCHEDULE : 1X MEETING : 4

A. INSTRUCTIONAL TARGET

1. TIU : After following this study, students of second semester are

expected can explain physiological process in limph system and

imunity

2. TIK : After following this study, students of second semester are

expected can explain and describe limphatic tissue and organ,

limphatic circulation process

B. TOPIC: Limph System & Imunity

ACTIVITY PHASE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA & INSTRUMENT
ANTECEDENT	Introducing preface	listening	LCD & discussion
PRESENTATION	Explain topic discussion	giving attention discussion	LCD & discussion
CONCLUTION	Formatif test	answer question self supporting discussion	LCD & discussion

SUBJECT

: ANATOMY PHYSIOLOGI NUTRITION

CODE

: KUG222

SCS

: 4

SEMESTER

: 11

LECTURER

: 1. dr. Martha Ardiaria

SCHEDULE

: 1X

MEETING

: 5

A. INSTRUCTIONAL TARGET

1. TIU

: After following this study, students of second semester are expected can explain anatomy & phisiology of cardiovasculer system

2. TIK

: After following this study, students of second semester are expected can explain and describe structure and devision of heart cabin and vasculer antomy

B. TOPIC: cardiovasculer system

ACTIVITY PHASE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA & INSTRUMENT
ANTECEDENT	Introducing preface	listening	LCD & discussion
PRESENTATION	Explain topic discussion	giving attention discussion	LCD & discussion
CONCLUTION	Formatif test	answer question self supporting discussion	LCD & discussion

SUBJECT : ANATOMY PHYSIOLOGI NUTRITION

CODE : KUG222

SCS : 4

SEMESTER : !!

LECTURER : 1. dr. Lidya Dyah

SCHEDULE : 2X MEETING : 6

B. INSTRUCTIONAL TARGET

1. TIU : After following this study, students of second semester are

expected can explain anatomy & phisiology of gastrointestinal

system

2. TIK After following this study, students of second semester are

expected can explain and describe anatomy and phisiology mouth, pharink, esophagus, gaster, pancreas, and phisiology process of

digestion and absorption in mouthand gster

B. TOPIC: gastrointestinal system

ACTIVITY PHASE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA & INSTRUMENT
ANTECEDENT	Introducing preface	listening	LCD & discussion
PRESENTATION	Explain topic discussion	giving attention discussion	LCD & discussion
CONCLUTION	Formatif test	answer question self supporting discussion	LCD & discussion

SUBJECT : ANATOMY PHYSIOLOGI NUTRITION

CODE : KUG222

SCS : 4 SEMESTER : II

LECTURER : 1. dr. Lidya Dyah

SCHEDULE : 2X MEETING : 8

C. INSTRUCTIONAL TARGET

1. TIU : After following this study, students of second semester are

expected can explain anatomy & phisiology of gastrointestinal

system

2. TIK : After following this study, students of second sernester are

expected can explain and describe anatomy and phisiology hepar,

vesica velea, intestine, & colon, and physiological process of

digestion and absorption in intestine and colon

B. TOPIC: gastrointestinal system II

ACTIVITY PHASE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA & INSTRUMENT
ANTECEDENT	Introducing preface	listening	LCD & discussion
PRESENTATION	Explain topic discussion	giving attention discussion	LCD & discussion
CONCLUTION	Formatif test	1. answer question 2. self supporting discussion	LCD & discussion

SUBJECT : ANATOMY PHYSIOLOGI NUTRITION

CODE : KUG222

SCS : 4 SEMESTER : II

LECTURER : 1. dr. Martha Ardiaria

SCHEDULE : 1X MEETING : 9

D. INSTRUCTIONAL TARGET

1. TIU : After following this study, students of second semester are

expected can explain anatomy & phisiology of tractus urinarius

2. TIK : After following this study, students of second semester are

expected can explain and describe anatomy and phisiology kidney, urethra, filtration process in glomerollus, reabsorption

process, and tubular secretion

B. TOPIC: urinary system

ACTIVITY PHASE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA & INSTRUMENT
ANTECEDENT	Introducing preface	listening	LCD & discussion
PRESENTATION	Explain topic discussion	giving attention discussion	LCD & discussion
CONCLUTION	Formatif test	answer question self supporting discussion	LCD & discussion

SUBJECT

: ANATOMY PHYSIOLOGI NUTRITION

CODE

: KUG222

SCS

: 4

SEMESTER

: 11

LECTURER

: 1. dr. Lidya Dyah

SCHEDULE

: 1X

MEETING

: 10

A. INSTRUCTIONAL TARGET

1. TIU

: After following this study, students of second semester are expected can explain anatomy & phisiology of liquid body and

acid base ballance

2. TIK

: After following this study, students of second semester are expected can explain and describe physiology of body liquid and electrolite, and acid base ballance

B. TOPIC: liquid and homeostasis

ACTIVITY PHASE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA & INSTRUMENT
ANTECEDENT	Introducing 2preface	listening	LCD & d.scussion
PRESENTATION	Explain topic discussion	giving attention discussion	LCD & discussion
CONCLUTION	Formatif test	answer question self supporting discussion	LCD & discussion

SUBJECT

: ANATOMY PHYSIOLOGI NUTRITION

CODE

: KUG222

SCS

: 4

SEMESTER

: H

LECTURER

: 1. dr. Etisa Adi Murbawani, M.Si

SCHEDULE

: 1X

MEETING

: 11

A INSTRUCTIONAL TARGET

1. TIU

: After following this study, students of second semester are expected can explain phisiological change of aging process

2. TIK

: After following this study, students of second semester are expected can explain and describe phisiological change of aging process of SSP, physiology function coordination, endocrine system, cardiovascular system, urinary system, respiratory system, gastrointestinal system, digestion process, and nutrient

absorbpion

B. TOPIC: Aging

ACTIVITY PHASE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA & INSTRUMENT
ANTECEDENT	Introducing preface	listening	LCD & discussion
PRESENTATION	Explain topic discussion	giving attention discussion	LCD & discussion
CONCLUTION	Formatif test	answer question self supporting discussion	LCD & discussion

SUBJECT : ANATOMY PHYSIOLOGI NUTRITION

CODE : KUG222

SCS : 4

SEMESTER : II

LECTURER : 1. dr. Etisa Adi Murbawani, M.Si

SCHEDULE : 1X MEETING : 12

A INSTRUCTIONAL TARGET

1. TIU : After following this study, students of second semester are

expected can explain anatomy and physiology of human growth

2. TIK : After following this study, students of second semester are

expected can explain and describe anatomy & physiology from

embrio period, fetal, pregnancy, birth, & lactacy

B. TOPIC: anatomy and physiology of human growth

ACTIVITY PHASE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA & INSTRUMENT
ANTECEDENT	1 Introducing 2 preface	listening	LCD & discussion
PRESENTATION	1 Explain topic 2 discussion	giving attention discussion	LCD & discussion
CONCLUTION	Formatif test	answer question self supporting discussion	LCD & discussion

SUBJECT

: ANATOMY PHYSIOLOGI NUTRITION

CODE

: KUG222

SCS

: 4

SEMESTER

: 11

LECTURER

: 1. dr. Enny Probosari

SCHEDULE

: 1X

MEETING

: 13

A INSTRUCTIONAL TARGET

1. TIU

: After following this study, students of second semester are expected can explain anatomy and physiology of endocrine

system

2. TIK

: After following this study, students of second semester are expected can explain and describe anatomy & physiology of glands

and hormone which in involve in endocrine system

B. TOPIC: endocrine system

ACTIVITY PHASE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA & INSTRUMENT
ANTECEDENT	1 Introducing 2 preface	listening	LCD & discussion
PRESENTATION	1 Explain topic 2 discussion	giving attention discussion	LCD & discussion
CONCLUTION	Formatif test	answer question self supporting discussion	LCD & discussion

UNIT OF EVENT INSTRUCTION SATUAN ACARA PENGAJARAN/SAP

SUBJECT : ANATOMY PHYSIOLOGI NUTRITION

CODE : KUG222

SCS : 4 SEMESTER : II

LECTURER : 1. dr. Etisa Adi Murbawani, M.Si

SCHEDULE : 1X MEETING : 14

A INSTRUCTIONAL TARGET

1. TIU : After following this study, students of second semester are

expected can explain anatomy and physiology of human senses

2. TIK : After following this study, students of second semester are

expected can explain and describe anatomy of ear, eye, nose, tongue, & skin, & physiological process of ear, eye, nose, tongue,

& skin

B. TOPIC: human senses

C. LECTURING ACTIVITY:

ACTIVITY PHASE	LECTURER ACTIVITY	STUDENT ACTIVITY	MEDIA & INSTRUMENT
ANTECEDENT	1 Introducing 2 preface	listening	LCD & discussion
PRESENTATION	1 Explain topic 2 discussion	giving attention discussion	LCD & discussion
CONCLUTION	Formatif test	3. answer question 4. self supporting discussion	LCD & discussion

OUTLINES PROGRAM OF EDUCATION

SUBJECT

FOOD SCIENCE AND TECHNOLOGY

CODE/SCS

: KUG332P./3

SEMESTER

: II

DESCRIPTION

This subjects discuss about food damage and food processing or preservation suitable with nature of foods and defence or increase the quality of foods, and nutrient content.

TARGET OF GENERAL INSTRUCTIONAL

This subjects target is students can apply the principles of food science and technology to process and picle the food and defence or increase the quality of foods

No.	Target of Specific Instructional	Topic	Sub Topic	Literature
1.	Can explain causes and fisical sign of food damage.	Food damage	 causes of food damage food damage because of microorganism food damage because of parasits, insects and rodents food damage because of chemical and 	Penuntun praktikum penilaian organoleptik, Winiati Pudji Rahayu, 1997 Pedoman pembuatan roti
			enzym 5. food damage because of themperature, and humidity 6. food damage because of mechanic and fisical causes	dan kue, US Wheat Associates, 1983 3. Bahan makanan untuk makanan dan kotaminan, FG Winarno, 1994
			7. signs of food damage8. effect of food damage to food contents and quality.	Teknologi pengawetan pangan, Norman W. Desrosier, 1988

2.	Can analyze quality of foods	Food quality analysis	1. definition and purpose of food quality	5. Teknologi pengemasan
			analysis	pangan, Rizal Syarrief,
	l control of the cont		2. How to analyze quality of foods	1989
			(objective and subjective)	6. Food Microbiology,
			3. Possitive and negative of food quality	Williem C. Frazier, 1988
			analysis objectivelly and subjectivelly.	7. Dasar-dasar pengawasan
			4. principle and technique of food quality	dan standar mutu pangan,
	;		analysis objectivelly and subjectivelly	Soewarno T. Soekarto,
		1 J		1990
				8. Teknologi penyimpanan
	!			pangan, Rizal Syarief,
	:	We also and the second		1993
		1		9. Teknologi fermentasi
				umbi-umbian dan biji-
				bijian, Suliantari, 1990
				10. Kimia pangan dan gizi,
				FG Winarno, 2002
	i			11. Menyimpan bahan
				pangan, Heri Purwanto,
				1995
				12. Petunjuk lab:
				penyimpanan dingin,
		* ************************************		Atjeng M. Syarief, 1992
				13. Emulsi pangan instant
				berlesitin, AJ Hartomo,
				1993
				14. Evaluation of certain food
				additives and
				contaminants, WHO 2004
				15. Buku I, II, III dan IV
				pangan dan gizi, LIPI, 2000
				16. Mikotoksin pangan,
				Djarir, 1992
			2	17. Ilmu pengetahuan bahan
				pangan, Tien R.Muchtadi.
				1992
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1972 10 Ilmu Dangan VA Dualda
ţ		'		

		Organoleptic test	I. Introduce nature of organoleptic Preparation sample in organoleptic test	
			3. Laboratory standart in organoleptic test	
			4. Types of phanelis in organoleptic test	•
			5. Types of organoleptic test	!
3.	Can explain how to increase	Increasing nutrient	1. Definition of quality and nutrient food	
	contents and quality of food	quality of food	2. Objective of increasing contents and	
			nutrient quality of food	;
			3. Type and way to increase contents and	
			nutrient quality of food	
	!		(supplementation, fortification,	
			enrichment, complementation, etc)	
4.	Can arrange formula food	Arrange formula food	1. definition, purpose, and type of formula	
			food	*
			2. standarts of formula foods	
			3. ways to arrange formula food for	
			babies, child under 5, athlets, pregnant	•
			woman, elderly, and navy.	
5.	Can explain function and ways to	Food additives	1. definition and function of food additives	
٥.	use food additives		2. purpose of food additive addition	
	use food death. ves	***************************************	3. type and way of food additive addition	
			4. doses which recomended by Health	
			Dept, WHO, etc.	
			5. the risk of using food additive	
6.	Can explain exactly packaging	Food packaging	1. definition and purpose of packaging	
υ.	Can explain exactly packaging	1	2. type and function of packaging	
			3. consideration factor of election package	
			ingredient	
			4. methods of packaging	

7.	Can process or preservative food	Processing or	1. definition and purpose of processing	
		preservation food	2. principles of processing and	
			preservation	
		77.	3. operation unit and factors which	
			contribute to processing and	
			preservation	
			4. influence of processing and preservation	
		**************************************	to food quality and nutrient content	
			5. methods of food processing and	
			preservation	
			6. postprocess/preservation handling	
		Food process /	1.principles of drying	
		preservation by drying	2.drying condition	
			3.factors which contribute to drying	
			process	
	! -		4.various drying process product	
	:		5.methods of process / preservation food	
			by drying	
		Food process /	1.principles of high themparature	
		preservation by high	2.high themparature condition	
		themparature	3.factors which contribute to high	
		1	themparature process	
	1		4.various high themparature process	
			product	
			5.methods of process / preservation food	
			by high themparature	

i i			
	Food process / preservation by freezing Food process /	1.principles of freezing 2.freezing condition 3.factors which contribute to freezing process 4.various freezing process product 5.methods of process / preservation food by freezing 1.principles of fermentation	
	preservation by fermentation	 2.fermentation condition 3.factors which contribute to fermentation process 4.various fermentation process product 5.methods of process / preservation food by fermentation 	
	Food process / preservation by smoked	1.principles of smoked 2.smoked condition 3.factors which contribute to smoked process 4.various smoked process product 5.methods of process / preservation food by smoked	
	Food process / preservation by sugaring, salting, and aciding	1.principles of sugaring, salting, and aciding 2.sugaring, salting, and aciding condition 3.factors which contribute to sugaring, salting, and aciding process 4.various sugaring, salting, and aciding process product 5.methods of process / preservation food by sugaring, salting, and aciding	

process 4. various emulsification, instant, and minimally process product 5. methods of process / preservation food by emulsification, instant, and		Food process / preservation by emulsification, instant, and minimally process	1.principles of emulsification, instant, and minimally process 2.emulsification, instant, and minimally process condition 3.factors which contribute to emulsification, instant, and minimally	
minimally process			4.various emulsification, instant, and minimally process product 5.methods of process / preservation food	

TEACHING CONTRACT

SUBJECT

: Food Science and Technology

CODE

: KUG332P

SCS

: 3

SEMESTER

: 11

SUBJECT SUPERVISOR: Arintina Rahayuni, STP., M.Pd.

LECTURER

: 1. Arintina Rahayuni, STP., M.Pd. 2. Ir. Sri Hetty Susetvorini, M.Kes.

3. Teguh Budiharjo, STP.

DAY /TIME

: Wednesday/ 13.00-15.30

: 1. Class C

LOCATION

2. Food Tech. Laboratory Nutrition Dept, Poltekkes

Smg

1. ADVANTAGE OF SUBJECT

Giving knoeledge and skill to identify food damage and food processing or preservation suitable with nature of foods and defence or increase the quality of foods, and nutrient content.

2. SUBJECT DESCRIPTION

This subjects discuss about food damage and food processing or preservation suitable with nature of foods and defence or increase the quality of foods, and nutrient content.

3. INTRUCTIONAL TARGET

TARGET OF GENERAL INSTRUCTIONAL

This subjects target is students can apply the principles of food science and technology to process and preservate the food and defence or increase the quality of foods

TARGET OF SPECIFIC INSTRUCTIONAL

After follow this subject students can:

- 1. Can explain causes and fisical sign of food damage.
- 2. Can analyze quality of foods
- 3. Can explain how to increase contents and quality of food
- 4. Can arrange formula food
- 5. Can explain function and ways to use food additives
- 6. Can explain exactly packaging
- 7. Can process or preservative food
- 8. Can process or preservative food by: fermentation, drying, freezing, high themperature, smoked, sugaring, salting, aciding, emulsification, instant, and minimally process

4. TEACHING STRATEGY

To reach the objective of this subject arranged methods and education tools.. Teaching methods which used are discourse, discussion, and practice on laboratory.

5. REFERENCE

- 1. Penuntun praktikum penilaian organoleptik, Winiati Pudji Rahayu, 1997
- 2. Pedoman pembuatan roti dan kue, US Wheat Associates, 1983
- 3. Bahan makanan untuk makanan dan kotaminan, FG Winarno, 1994
- 4. Teknologi pengawetan pangan, Norman W. Desrosier, 1988
- 5. Teknologi pengemasan pangan, Rizal Syarrief, 1989
- 6. Food Microbiology, Williem C. Frazier, 1988
- 7. Dasar-dasar pengawasan dan standar mutu pangan, Soewarno T. Soekarto, 1990
- 8. Teknologi penyimpanan pangan, Rizal Syarief, 1993
- 9. Teknologi fermentasi umbi-umbian dan biji-bijian, Suliantari, 1990
- 10. Kimia pangan dan gizi, FG Winarno, 2002
- 11. Menyimpan bahan pangan, Heri Purwanto, 1995
- 12. Petunjuk lab : penyimpanan dingin, Atjeng M. Syarief, 1992
- 13. Emulsi pangan instant berlesitin, AJ Hartomo, 1993
- 14. Evaluation of certain food additives and contaminants, WHO 2004
- 15. Buku I, II, III dan IV pangan dan gizi, LIPI, 2000
- 16. Mikotoksin pangan, Djarir, 1992
- 17. Ilmu pengetahuan bahan pangan, Tien R. Muchtadi, 1992
- 18. limu Pangan, KA Buckle, 1988
- 19. Pengolahan pangan tingkat rumah tangga, Sri Anna, 1992
- 20. Manisan buah-buahan, N.Eddy S., 1996
- 21. Gizi dan pengolahan pangan, Rizgie A.
- 22. Mikrobiologi dalam pengolahan pangan dan keamanan pangan, Imam S.
- 23. Food Processing Technology, PJ Fellows, 1988
- 24. Gizi dan pengolahan pangan, Rizqie Auliana, 2001
- 25. Kerusakan bahan pangan dan cara pencegahannya, FG Winarno, 1983
- 26. Penilaian orno industri pangan & hasil pertanian, Soewarno T. Soekarto, 1985
- 27. Sifat fisik pangan, M. Aman Wirakartakusumah, 1992
- 28. Teknologi fermentasi produk perikanan, Winiati Pudji Rahayu, 1992
- 29. Teknologi fermentasi sayur dan buah-buahan, Djundjung Daulay, 1992
- 30. Teknologi fermentasi susu, Ansori R., 1992
- 31. Teknologi pasca panen dan industri rumah tangga (suatu rangkuman) Tj. Vivian, 1991
- 32. Teknologi pengolahan pasca panen, AG Karta Saputra, 1994
- 33. Teknologi pengawetan pangan, Suharta, 1991
- 34. Teknologi pengolahan pangan nabati (I) dan hewani (II), Made astawan, 1991.
- 35. Mikrobiologi pengolahan pangan, Srikandi Fardiaz, 1992

6. ASSIGNMENT

Group visit (@ 2 student) to home industry, to see processing food and the quality of food which produced.

7. SCORING

Point	Range	
4	≥ 88	
3.5	80-87	
3	72-79	
25	64-71	
2,0	56-63	
15	48-55	
1	40-47	
——————————————————————————————————————	< 40	
	Point	4 ≥ 88 3,5 80-87 3 72-79 2,5 64-71 2 56-63 1,5 48-55 40-47

To determine final score, will used:

Attendance

: 10%

Mid semester test

: 35%

Final test

: 35%

Assignment

: 20%

9. TEACHING SCHEDULE

MEETING	TOPIC	LECTURER
Meeting I	Food damage	Arintina R.
iviceung	Food Quality	
Meeting II	Increasing food quality	Teguh B.
Meeting n	Formula food	
Meeting III	Food additive	Arintina R.
Meeting III	Packaging	
Meeting IV	Processing and preservation by high	Hetty S.
Wieeding IV	themnerature	
Meeting V	Processing and preservation by high	Hetty S.
Meening v	themnerature (continued)	
	Processing and preservation by low	
	themperature (freezing)	
Meeting VI	Fermentation	Teguh B.
incoming	Smoked	
Meeting VII	Mid Test	
Meeting VIII	Sugaring	Hetty S.
Wioding ***	Aciding	
	Salting	A indian D
Meeting IX	Emulsification	Arintina R.
	Minimally Process	
	Instant product	Arintina R.
Meeting X	Organoleptic test	Armuna K.
	Bread	Arintina R. + Hetty S.
Meeting XI	Tools introduction	Allitula N. 4 Tietty C.
	Jam/Jelly	Teguh B. + Hetty S.
Meeting XII	Practice	reguli b. Themy o.
	Saurkraut/pickle/Tape	Arintina R. + Teguh
Meeting XIII	Practice	Amuna IV Togan

	Soy milk	B.
	Tofu	
Meeting XIV	Practice	Teguh B. + Hetty S.
	Ice Cream	
	Instant ginger	
Meeting XV	Nugget	Arintina + Teguh B.
	Meat ball	
Meeting XVI	Final Test	

SUBJECT

Food Science and Technology

CODE

KUG332P

SCS

: 3

LECTURER

Arintina Rahayuni, STP., M.Pd.

TIME

150 min

MEETING

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A. INTRUCTIONAL TARGET

1. TGI

: This subjects target is students can apply the principles of food science and technology to process and preservate the food and

defence or increase the quality of foods

2. TSI

: Can explain causes and fisical sign of food damage.

Students can analyze food quality

B. TOPIC

: Food damage

Food Quality

C. SUB TOPIC:

1. causes of food damage

2. food damage because of microorganism

- 3. food damage because of parasits, insects and rodents
- 4. food damage because of chemical and enzym
- 5. food damage because of themperature, and humidity
- 6. food damage because of mechanic and fisical causes
- 7. signs of food damage
- 8. effect of food damage to food contents and quality.
- 9. definition and purpose of food quality analysis
- 10. How to analyze quality of foods (objective and subjective)
- 11. Possitive and negative of food quality analysis objectivelly and subjectivelly.
- 12. Principle and technique of food quality analysis objectivelly and subjectivelly

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
OPENING	Open the class (giving salute). Introduce your self. Introduce and explain about the subject. Negotiate about score and assignment.	Answering salute. Respons to explanation.	White board and spidol
TEACHING	Explain about causes of food damage. Explain about food damage by: a. microorganism, b. parasits, insects & rodents c. chemical and enzyme	Typing Asking Clarifying the explanation	White board and spidol OHP and OHT Food damage and quality handbook

CLOSING	d. themperature, and humidity e. mechanic and fisical causes f. giving examples about signs of food damage g. explain about effect of food damage to food contents and quality. h. explain about definition and purpose of food quality analysis i. explain how to analyze quality of foods (objective and subjective), possitive and negative of food quality analysis objectivelly and subjectivelly. j. explain about principle and technique of food quality analysis objectivelly and subjectivelly Menguraikan cara-cara penilaian kualitas makanan (obyektif dan subyektif) Resume the topic	Answering salute	white board
CLOSING	Close the class (giving salute)]	and spidol

Observated understanding of student to matery of meeting and ask about the topic.

- 1. Food Microbiology, Williem C. Frazier, 1988
- 2. Dasar-dasar pengawasan dan standar mutu pangan, Soewarno T. Soekarto, 1990
- 3. Teknologi penyimpanan pangan, Rizal Syarief, 1993
- 4. Kimia pangan dan gizi, FG Winarno, 2002
- 5. Menyimpan bahan pangan, Heri Purwanto, 1995
- 6. Buku I, II, III dan IV pangan dan gizi, LIPI, 2000
- 7. Mikotoksin pangan, Djarir, 1992
- 8. Ilmu pengetahuan bahan pangan, Tien R.Muchtadi, 1992
- 9. Ilmu Pangan, KA Buckle, 1988
- 10. Gizi dan pengolahan pangan, Rizqie A.
- 11. Mikrobiologi dalam pengolahan pangan dan keamanan pangan, Imam S.
- 12. Food Processing Technology, PJ Fellows, 1988
- 13. Gizi dan pengolahan pangan, Rizqie Auliana, 2001
- 14. Kerusakan bahan pangan dan cara pencegahannya, FG Winarno, 1983
- 15. Sifat fisik pangan, M. Aman Wirakartakusumah, 1992
- 16. Mikrobiologi pengolahan pangan, Srikandi Fardiaz, 1992
- 17. Penuntun praktikum penilaian organoleptik, Winiati Pudji Rahayu, 1997
- 18. Penilaian organoleptik untuk industri pangan dan hasil pertanian, Soewarno T. Soekarto, 1985

SUBJECT

Food Science and Technology

CODE

KUG332P

SCS

3

LECTURER

Arintina Rahayuni, STP., M.Pd.

TIME

150 min

MEETING

A. INTRUCTIONAL TARGET

1. TGI

: This subjects target is students can apply the principles of food

science and technology to process and preservate the food and

defence or increase the quality of foods

2. TSI

: Student can do organoleptic test

B. TOPIC: Organoleptic test

C. SUB TOPIC:

Introduce nature of organoleptic 1.

- Preparation sample in organoleptic test 2.
- Laboratory standart in organoleptic test 3.
- Types of phanelis in organoleptic test 4.
- Types of organoleptic test 5.

D. ACTIVITY OF TEACHING: Discourse

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
OPENING	Open the class (giving salute). Short explanation about meeting I, food damage and quality	Answering salute. Respons to explanation.	White board and spidol
TEACHING	Identificate nature of organoleptic Explain about preparation sample in organoleptic test Explain about laboratory standart in organoleptic test Accomodating used of phanelis according to the	Typing Asking Clarifying the explanation	White board and spidol OHP and OHT Organoleptic test handbook
	type 5. Elect exacly organoleptic test: differential test, preference, scalar, description, application.		
CLOSING	Resume the topic Close the class (giving salute)	Answering salute	white board and spidol

E. EVALUATION:

Observated understanding of student to matery of meeting and ask about the

- Penuntun praktikum penilaian organoleptik, Winiati Pudji Rahayu, 1997
 Dasar-dasar pengawasan dan standar mutu pangan, Soewarno T. Soekarto, 1990
- 3. Penilaian organoleptik untuk industri pangan dan hasil pertanian, Soewarno T. Soekarto, 1985

SUBJECT : Food Science and Technology

CODE : KUG332P

SCS : 3

LECTURER : Teguh Budiharjo, S.Tp.

TIME : 150 min

MEETING : III

A. INTRUCTIONAL TARGET

1. TGI : This subjects target is students can apply the principles of food

science and technology to process and preservate the food and

defence or increase the quality of foods

2. TSI : Can explain how to increase nutrient contents and quality of food

Can arrange formula food

B.TOPIC: Increasing nutrient quality of food

Arrange formula food

C. SUB TOPIC:

Definition of quality and nutrient food

2. Objective of increasing contents and nutrient quality of food

3. Type and way to increase contents and nutrient quality of food (supplementation, fortification, enrichment, complementation, etc)

4. Definition, purpose, and type of formula food

5. Standarts of formula foods

6. Ways to arrange formula food for babies, child under 5, athlets, pregnant woman, elderly, and navy.

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
OPENING	Open the class (giving salute). Introduce your self.	Answering salute. Respons to explanation.	White board and spidol
TEACHING	1. Explain about definition of quality and nutrient food 2. Explain about the objective of increasing contents and nutrient quality of food 3. Explain about type and way to increase contents and nutrient quality of food (supplementation, fortification, enrichment, complementation, etc) 4. Explain about definition, purpose, and type of formula food	Typing Asking Clarifying the explanation	White board and spidol OHP and OHT Increasing nutrient quality of food and arrange formula food handbook
	Explain about standarts of formula foods Explain about how to		

	babies, child under 5, athlets, pregnant woman, elderly, and navy.		
CLOSING	Resume the topic Close the class (giving salute)	Answering salute	white board and spidol

Observated understanding of student to matery of meeting and ask about the topic.

- a. Kimia pangan dan gizi, FG Winarno, 2002
- b. Buku I, II, III dan IV pangan dan gizi, LIPI, 2000
- c. Ilmu pengetahuan bahan pangan, Tien R.Muchtadi, 1992
- d. Ilmu Pangan, KA Buckle, 1988
- e. Gizi dan pengolahan pangan, Rizqie A.

SUBJECT

Food Science and Technology

CODE

KUG332P

SCS

3

LECTURER

Arintina Rahayuni, STP., M.Pd.

TIME

150 min

MEETING

IV

A. INTRUCTIONAL TARGET

1. TGI

: This subjects target is students can apply the principles of food

science and technology to process and preservate the food and

defence or increase the quality of foods

2. TSI

: Can explain function and ways to use food additives

Can explain and elect exactly packaging

B. TOPIC

: Function and ways to use food additives

Food packaging

C. SUB TOPIC:

1. definition and function of food additives

2. purpose of food additive addition

3. type and way of food additive addition

4. doses which recomended by Health Dept, WHO, etc.

5. the risk of using food additive

6. definition and purpose of packaging

7. type and function of packaging

8. consideration factor of election package ingredient

9. methods of packaging

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
OPENING	Open the class (giving salute). Short explanation about meeting II about organoleptic	Answering salute. Respons to explanation.	White board and spidol
	test		
TEACHING	Explain about definition and function of food additives Explain about purpose of food additive addition Explain about type and way of food additive addition Explain about doses which recomended by Health Dept, WHO, etc. Explain about the risk of using food additive	Typing Asking Clarifying the explanation	White board and spidol OHP and OHT food additives and food packaging handbook
	Explain about definition and purpose of packaging		

	7. Explain about type and function of packaging 8. Explain about consideration factor of election package ingredient 9. Explain about methods of packaging		
CLOSING	Resume the topic Close the class (giving salute)	Answering salute	white board and spidol

Observated understanding of student to matery of meeting and ask about the topic.

- 1. Food Microbiology, Williem C. Frazier, 1988
- Dasar-dasar pengawasan dan standar mutu pangan, Soewarno T. Soekarto, 1990
- 3. Teknologi penyimpanan pangan, Rizal Syarief, 1993
- 4. Kimia pangan dan gizi, FG Winarno, 2002
- 5. Menyimpan bahan pangan, Heri Purwanto, 1995
- 6. Buku I, II, III dan IV pangan dan gizi, LIPI, 2000
- 7. Mikotoksin pangan, Djarir, 1992
- 8. Ilmu pengetahuan bahan pangan, Tien R.Muchtadi, 1992
- 9. Ilmu Pangan, KA Buckle, 1988
- 10. Gizi dan pengolahan pangan, Rizqie A.
- 11 Mikrobiologi dalam pengolahan pangan dan keamanan pangan, Imam S.
- 12. Food Processing Technology, PJ Fellows, 1988
- 13. Gizi dan pengolahan pangan, Rizqie Auliana, 2001
- 14. Kerusakan bahan pangan dan cara pencegahannya, FG Winarno, 1983
- 15. Sifat fisik pangan, M. Aman Wirakartakusumah, 1992
- 16. Mikrobiologi pengolahan pangan, Srikandi Fardiaz, 1992
- 17. Penuntun praktikum penilaian organoleptik, Winiati Pudji Rahayu, 1997
- 18. Penilaian organoleptik untuk industri pangan dan hasil pertanian, Soewarno T. Soekarto, 1985

SUBJECT

Food Science and Technology

CODE

KUG332P

SCS

LECTURER

Ir. Sri Hetty Susetyorini, M.Kes.

TIME

150 min

MEETING

A. INTRUCTIONAL TARGET

1. TGI

: This subjects target is students can apply the principles of food science and technology to process and preservate the food and

defence or increase the quality of foods

2. TSI

: Can explain food processing or preservation

Can explain food processing or preservation by high

themperature

B. TOPIC

Food processing or preservation

Food processing or preservation by high themperature

C. SUB TOPIC:

1. definition and purpose of processing

2. principles of processing and preservation

3. operation unit and factors which contribute to processing and preservation

4. influence of processing and preservation to food quality and nutrient content

5. methods of food processing and preservation

6. postprocess/preservation handling

7. principles of high themparature

8. high themparature condition

9. factors which contribute to high themparature process

10. various high themparature process product

11, methods of process / preservation food by high themparature

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF	TOOLS OF TEACHING
		STUDENTS	
OPENING	Open the class (giving salute). Introduce your self.	Answering salute. Respons to explanation.	White board and spidol
TEACHING	Explain about definition and purpose of processing Explain about principles of processing and preservation Differentiate operation unit and factors which contribute to processing and preservation	Typing Asking Clarifying the explanation	White board and spidol OHP and OHT Food processing or preservation handbook

		م المناسبين سيدما ستانيا	
	Associate influence of		
	processing and		
	preservation to food quality		
	and nutrient content		
	5. Giving examples about		
	methods of food		
	processing and		
į	preservation		
	6. Practice		
	postprocess/preservation		
ļ	handling		
	7. Explain about principles of		
	high themparature		
<u> </u>	8. Explain about high		
	themparature condition		
	9. Identificate factors which		
	contribute to high		
	themparature process		
	10. Giving examples various		
	high themparature process		
	product		
	11 Practice methods of		
	process / preservation food		
	by high themparature	Anguarina	white board and spidol
CLOSING	Resume the topic	Answering	Writte board and spidos
	Close the class (giving salute)	salute	L

Observated understanding of student to matery of meeting and ask about the topic.

- 1. Teknologi pengawetan pangan, Norman W. Desrosier, 1988
- 2. Petunjuk lab : penyimpanan dingin, Atjeng M. Syarief, 1992
- 3. Buku I, II, III dan IV pangan dan gizi, LIPI, 2000
- 4. Ilmu Pangan, KA Buckle, 1988
- 5. Gizi dan pengolahan pangan, Rizqie A.
- 6. Food Processing Technology, PJ Fellows, 1988
- 7. Teknologi pengawetan pangan, Suharta, 1991

SUBJECT

Food Science and Technology

CODE

KUG332P

SCS

. 3

LECTURER

Ir. Sri Hetty Susetyorini, M.Kes.

TIME

150 min

MEETING

VI

A. INTRUCTIONAL TARGET

1. TGI

: This subjects target is students can apply the principles of food science and technology to process and preservate the food and

defence or increase the quality of foods

2. TSI

: Can explain food processing or preservation by drying Can explain food processing or preservation by freezing

B. TOPIC

: Food processing or preservation by drying

Food processing or preservation by freezing

C. SUB TOPIC:

1. principles of drying

2. drying condition

3. factors which contribute to drying process

4. various drying process product

5. methods of process / preservation food by drying

6. principles of freezing

7. freezing condition

8. factors which contribute to freezing process

9. various freezing process product

10. methods of process / preservation food by freezing

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
OPENING	Open the class (giving salute). Short explanation about meeting V about food	Answering salute. Respons to explanation.	White board and spidol
	processing and preservation by high themperature	Tuning	White board and
TEACHING	Explain about principles of drying Explain about drying condition Identificate factors which contribute to drying process Giving examples various drying process product Practice methods of process / preservation	Typing Asking Clarifying the explanation	spidol OHP and OHT Drying and freezing handbook
	food by drying 6. Explain about principles of		

	freezing 7. Explain about freezing condition 8. Identificate factors which contribute to freezing process 9. Giving examples various freezing process product 10. Practice methods of process / preservation food by freezing		
CLOSING	Resume the topic Close the class (giving salute)	Answering salute	white board and spidol

Observated understanding of student to matery of meeting and ask about the topic.

- 1. Teknologi pengawetan pangan, Norman W. Desrosier, 1988
- 2. Petunjuk lab : penyimpanan dingin, Atjeng M. Syarief, 1992
- 3. Buku I, II, III dan IV pangan dan gizi, LIPI, 2000
- 4. Ilmu Pangan, KA Buckle, 1988
- 5. Gizi dan pengolahan pangan, Rizqie A.
- 6. Food Processing Technology, PJ Fellows, 1988
- 7. Teknologi pengawetan pangan, Suharta, 1991

SUBJECT

Food Science and Technology

CODE

KUG332P

SCS

٠ 2

LECTURER

Teguh Budiharjo, S.Tp.

TIME

150 min

MEETING

VIII

A. INTRUCTIONAL TARGET

1. TGI

: This subjects target is students can apply the principles of food

science and technology to process and preservate the food and

defence or increase the quality of foods

2. TSI

: Can explain food processing or preservation by fermentation

Can explain food processing or preservation by smoked

B. TOPIC:

food processing or preservation by fermentation

· food processing or preservation by smoked

C. SUB TOPIC:

1. principles of fermentation

- 2. fermentation condition
- 3. factors which contribute to fermentation process
- 4. various fermentation process product
- 5. methods of process / preservation food by fermentation
- 6. principles of smoked
- 7. smoked condition
- 8. factors which contribute to smoked process
- 9. various smoked process product
- 10. methods of process / preservation food by smoked

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
OPENING	Open the class (giving salute). Short explanation about meeting ill about food nutrient quality and formula food	Answering salute. Respons to explanation.	White board and spidol
TEACHING	Explain about principles of ferrnentation Explain about fermentation condition Identificate factors which contribute to fermentation process Giving examples various fermentation process product	Typing Asking Clarifying the explanation	White board and spidol OHP and OHT Fermentation and smoked handbook

	5. Practice methods of process / preservation food by fermentation 6. Explain about principles of smoked 7. Explain about smoked condition 8. Identificate factors		
	which contribute to smoked process 9. Giving examples various smoked		
	process product 10. Practice methods of process / preservation food by smoked		
CLOSING	Resume the topic Close the class (giving salute)	Answering salute	white board and spidol

Observated understanding of student to matery of meeting and ask about the topic.

- 1. Teknologi pengawetan pangan, Norman W. Desrosier, 1988
- 2. Food Microbiology, Williem C. Frazier, 1988
- 3. Teknologi fermentasi umbi-umbian dan biji-bijian, Suliantari, 1990
- 4. Ilmu pengetahuan bahan pangan, Tien R.Muchtadi, 1992
- 5. Ilmu Pangan, KA Buckle, 1988
- 6. Gizi dan pengolahan pangan, Rizqie A.
- 7. Mikrobiologi dalam pengolahan pangan dan keamanan pangan, Imam S.
- 8. Food Processing Technology, PJ Fellows, 1988
- 9. Teknologi fermentasi produk perikanan, Winiati Pudji Rahayu, 1992
- 10. Teknologi fermentasi sayur dan buah-buahan, Djundjung Daulay, 1992
- 11. Teknologi fermentasi susu, Ansori R., 1992
- 12. Mikrobiologi pengolahan pangan, Srikandi Fardiaz, 1992

SUBJECT : Food Science and Technology

CODE : KUG332P

SCS : 3

LECTURER: Ir. Sri Hetty Susetyorini, M.Kes.

TIME : 150 min MEETING : IX

A. INTRUCTIONAL TARGET

1. TGI : This subjects target is students can apply the principles of food

science and technology to process and preservate the food and

defence or increase the quality of foods

2. TSI : Can explain food processing or preservation by sugaring, salting,

aciding

B. TOPIC: Food processing or preservation by sugaring, salting, aciding

C. SUB TOPIC:

1. principles of sugaring, salting, and aciding

2. sugaring, salting, and aciding condition

3. factors which contribute to sugaring, salting, and aciding process

4. various sugaring, salting, and aciding process product

5. methods of process / preservation food by sugaring, salting, and aciding

ACTIVITY	ACTIVITY OF	ACTIVITY OF	TOOLS OF
	LECTURER	STUDENTS	TEACHING
OPENING	Open the class (giving salute). Short explanation about meeting VI about drying and freezing	Answering salute. Respons to explanation.	White board and spidol
TEACHING	Explain about principles of sugaring, salting, and aciding	Typing Asking Clarifying the	White board and spidol OHP and OHT
	2. Explain about sugaring, salting, and aciding condition 3. Identificate factors which contribute to sugaring, salting, and aciding process 4. Giving examples various sugaring, salting, and aciding process product 5. Practice methods of process / preservation food by sugaring, salting, and aciding	explanation	sugaring, salting, and aciding handbook
CLOSING	Resume the topic Close the class (giving salute)	-Answering salute	white board and spidol

Observated understanding of student to matery of meeting and ask about the topic.

- 1. Teknologi pengawetan pangan, Norman W. Desrosier, 1988
- 2. Food Microbiology, Williem C. Frazier, 1988
- 3. Teknologi fermentasi umbi-umbian dan biji-bijian, Suliantari, 1990
- 4. Ilmu pengetahuan bahan pangan, Tien R.Muchtadi, 1992
- 5. Ilmu Pangan, KA Buckle, 1988
- 6. Gizi dan pengolahan pangan, Rizqie A.
- 7. Mikrobiologi dalam pengolahan pangan dan keamanan pangan, Imam S.
- 8. Food Processing Technology, PJ Fellows, 1988
- 9. Teknologi fermentasi produk perikanan, Winiati Pudji Rahayu, 1992
- 10. Teknologi fermentasi sayur dan buah-buahan, Djundjung Daulay, 1992
- 11. Teknologi fermentasi susu, Ansori R., 1992
- 12. Mikrobiologi pengolahan pangan, Srikandi Fardiaz, 1992

SUBJECT: Food Science and Technology

CODE : KUG332P

SCS : 3

LECTURER : Arintina Rahayuni, STP., M.Pd.

TIME : 150 min

MEETING : X

A. INTRUCTIONAL TARGET

1. TGI : This subjects target is students can apply the principles of food

science and technology to process and preservate the food and

defence or increase the quality of foods

2. TSI : Can explain food process / preservation by emulsification, instant,

and minimally process

B. TOPIC : Food process / preservation by emulsification, instant, and

minimally process

C. SUB TOPIC:

1. principles of emulsification, instant, and minimally process

2. emulsification, instant, and minimally process condition

3. factors which contribute to emulsification, instant, and minimally process

4. various emulsification, instant, and minimally process product

5. methods of process / preservation food by emulsification, instant, and minimally process

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
OPENING	Open the class (giving salute). Short explanation about meeting III about food additive and packaging	Answering salute. Respons to explanation.	White board and spidol
TEACHING	Explain about principles of emulsification, instant, and minimally process Explain about	Typing Asking Clarifying the explanation	White board and spidol OHP and OHT emulsification,
	emulsification, instant, and minimally process condition		instant, and minimally process handbook
	Identificate factors which contribute to emulsification, instant, and minimally process		Haridbook
	4. Giving examples various emulsification, instant, and minimally process product	1	
	5. Practice methods of process / preservation food by emulsification, instant, and minimally		
	process		

	CLOSING	Resume the topic Close the class (giving salute)	Answering salute	white board and spidol
Т			l I	

Observated understanding of student to matery of meeting and ask about the topic.

- 1. Teknologi pengawetan pangan, Norman W. Desrosier, 1988
- 2. Pedoman pembuatan roti dan kue, US Wheat Associates, 1983
- 3. Food Microbiology, Williem C. Frazier, 1988
- 4. Emulsi pangan instant berlesitin, AJ Hartomo, 1993
- 5. Buku I, II, III dan IV pangan dan gizi, LIPI, 2000
- 6. Gizi dan pengolahan pangan, Rizqie A.
- 7. Food Processing Technology, PJ Fellows, 1988
- 8. Gizi dan pengolahan pangan, Rizqie Auliana, 2001
- 9. Teknologi pengawetan pangan, Suharta, 1991

SUBJECT

Food Science and Technology

CODE

KUG332P

SCS

LECTURER

Arintina Rahayuni, STP., M.Pd. Ir. Sri Hetty Susetyorini, M.Kes.

TIME

4 hours

MEETING

ΧI

A. INTRUCTIONAL TARGET

1. TGI

: This subjects target is students can apply the principles of food science and technology to process and preservate the food and

defence or increase the quality of foods

2. TSI

Students understan how to use instruments of food technology

laboratory

Students can make food product by sugaring (jam/jelly)

: Processing sugaring product (jam, jelly) B. TOPIC

C. SUB TOPIC:

1. Make jam, jelly with various treatment

2. Perceiving jam, jelly product

3. Storage jam, jelly product

4. Perceiving jam, jelly product had been storage

D. ACTIVITY OF TEACHING: Practice

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
OPENING	Open the class (giving salute).	Answering salute. Respons to explanation.	White board and spidol
TEACHING	Explain basic principle, practice prosedure, treatment on jam, jelly product practice. Perceiving jam, jelly	Typing Asking Clarifying the explanation	White board and spidol OHP and OHT jam, jelly handbook
	product (rendemen, nature of organoleptic) 3. Storage product jam, jelly 4. Perceiving product jam, jelly had been storage to see change		
CLOSING	Conclute the result of practice Close the class (giving salute)	Answering salute	white board and spidol

E. EVALUATION:

Observated understanding of student to matery of meeting and ask about the topic.

- 1. Teknologi pengawetan pangan, Norman W. Desrosier, 1988
- 2. Teknologi penyimpanan pangan, Rizal Syarief, 1993
- 3. Menyimpan bahan pangan, Heri Purwanto, 1995
- 4. Pengolahan pangan tingkat rumah tangga, Sri Anna, 1992
- 5. Manisan buah-buahan, N.Eddy S., 1996
- 6. Food Processing Technology, PJ Fellows, 1988
- 7. Teknologi pengawetan pangan, Suharta, 1991
- 8. Teknologi pengolahan pangan nabati (I) dan hewani (II), Made astawan, 1991.

SUBJECT

Food Science and Technology

CODE

KUG332P

SCS

LECTURER

Arintina Rahayuni, STP., M.Pd.

Teguh Budiharjo, STP.

TIME

4 hours

MEETING

XIII

A. INTRUCTIONAL TARGET

1. TGI

: This subjects target is students can apply the principles of food science and technology to process and preservate the food and

defence or increase the quality of foods

2. TIK

: Students can make processing/preservation product with heating

and process combination (soy milk and tofu)

B. TOPIC

: Processing/preservation product with heating and process

combination (soy milk and tofu)

C. SUB TOPIC:

1. Make soy milk and tofu with various treatment

2. Perceiving soy milk and tofu product

3. Storage soy milk and tofu product

4. Perceiving soy milk and tofu product had been storage

D. ACTIVITY OF TEACHING: Practice

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
OPENING	Open the class (giving salute).	Answering salute. Respons to explanation.	White board and spidol
TEACHING	Explain basic principle, practice prosedure, treatment on soy milk and tofu product practice. Perceiving-soy-milk-and tofu product (rendemen, nature of organoleptic) Storage product soy milk and tofu Perceiving product soy milk and tofu had been storage to see change	Typing Asking Clarifying the explanation	White board and spidol OHP and OHT Food damage and quality handbook
CLOSING	Conclute the result of practice Close the class (giving salute)	Answering salute	white board and spidol

E. EVALUATION:

Observated understanding of student to matery of meeting and ask about the topic.

- 1. Teknologi pengawetan pangan, Norman W. Desrosier, 1988
- 2. Ilmu Pangan, KA Buckle, 1988
- 3. Pengolahan pangan tingkat rumah tangga, Sri Anna, 1992
- 4. Food Processing Technology, PJ Fellows, 1988
- 5. Teknologi pasca panen dan industri rumah tangga (suatu rangkuman) Tj. Vivian, 1991
- 6. Teknologi pengolahan pasca panen, AG Karta Saputra, 1994
- 7. Teknologi pengolahan pangan nabati (I) dan hewani (II), Made astawan, 1991.

SUBJECT : Food Science and Technology

CODE : KUG332P

SCS : 3

LECTURER: Arintina Rahayuni, STP., M.Pd.

Teguh Budiharjo, STP.

TIME : 4 hours MEETING : XIV

A. INTRUCTIONAL TARGET

1. TGI : This subjects target is students can apply the principles of food

science and technology to process and preservate the food and

defence or increase the quality of foods

2. TSI : Students can make processing emulsion product and process

combination (meat ball and nugget)

B. TOPIC : Processing emulsion product and process combination (meat

ball and nugget)

C. SUB TOPIC:

1. Make meat ball and nugget with various treatment

2. Perceiving meat ball and nugget product

3. Storage meat ball and nugget product

4. Perceiving meat ball and nugget product had been storage

D. ACTIVITY OF TEACHING: Practice

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
OPENING	Open the class (giving salute).	Answering salute. Respons to explanation.	White board and spidol
TEACHING	Explain basic principle, practice prosedure, treatment on meat ball and nugget product practice. Perceiving meat ball and nugget product	Typing Asking Clarifying the explanation	White board and spidol OHP and OHT Food damage and quality handbook
	(rendemen, nature of organoleptic) 3. Storage product meat ball and nugget 4. Perceiving product meat ball and nugget had been storage to see change		
CLOSING	Conclute the result of practice Close the class (giving salute)	Answering salute	white board and spidol

E. EVALUATION:

Observated understanding of student to matery of meeting and ask about the topic.

- 1. Emulsi pangan instant berlesitin, AJ Hartomo, 1993
- 2. Buku I, II, III dan IV pangan dan gizi, LIPI, 2000
- 3. Ilmu Pangan, KA Buckle, 1988
- 4. Pengolahan pangan tingkat rumah tangga, Sri Anna, 1992
- 5. Food Processing Technology, PJ Fellows, 1988
- 6. Teknologi pasca panen dan industri rumah tangga (suatu rangkuman) Tj. Vivian, 1991
- 7. Teknologi pengolahan pasca panen, AG Karta Saputra, 1994
- 8. Teknologi pengolahan pangan nabati (I) dan hewani (II), Made astawan, 1991.

OUTLINES PROGRAM OF EDUCATION

SUBJECT

: FOOD CHEMISTRY

CODE/SCS

: KUG224P / 3

SEMESTER

; II

This subject is one of the nutrition program with topic food chemistry. Topic of this subject contains macronutrient, micronutrient, additive and metabolite subtance which associate with healthy foods and health problems.

TARGET OF GENERAL INSTRUCTIONAL

After follow this subject, students can understan about topic that related with food chemistrically.

No.	Target of Specific Instructional Students can explain definition, natures and advantages of water to life and health.	Topic Water	Sub Topic - Water chemistry. - Covalent bond and water molecule bond. - Water in food ingredient. - Atipulating water content.	Literature FG . Winarno (1992) John.M.de Man (1997)
2.	Students can explain definition, classification, source and advantages of carbohydrate. can explain and write structure, nomenclature and nature of carbohydrate.		 Classification, nomenclature, isomerisation, and source of carbohydrate. Simple carbohydrate Complex carbohydrate Carbohydrate Identifikation 	Arun Bahl (1979) Edwin,TM (1960) Kroschuitz,JL (1990) West and Todd (1961
3.	Students can explain definition, classification, nature of amino acid and can write structure, and nomenclature of amino acid.	Amino acid	Deff. of amino acid, structure and nomenclature Classification of amino acid Nature of amino acid (physic and chemist).	Arun Bahl (1979) Edwin,TM (1960) Kroschuitz,JL (1990) West andTodd (1961)
4.	Students can explain definition, classification, nature of protein and the role to organism. Explain and write various protein bond.	Protein	 Deff, protein classification Type of bond in polipeptida chain / protein Nature of amino acid (physic and chemist) Role of Protein 	Arun Bahl (1979) Edwin,TM (1960) Kroschuitz,JL (1990) West andTodd (1961)

5.	Students can explain definition, classification, nature of lipid and the role to organism. Explain and write structure and nomenclature and lipid analysis.	Lipid	 Subtances that form lipid and structure of lipid Classification and nomenclature of lipid Nature of amino acid (physic and chemist) Lipid analysis 	Arun Bahl (1979) Edwin,TM (1960) Kroschuitz,JL (1990) West andTodd (1961)
6.	Students can explain about micronutrient.	Vitamin	 Fat soluble vitamins Water soluble vitamins Vitamin function as coenzyme 	FG . Winarno (1992) John.M.de Man (1997)
7	Students can explain definition, classification, advantages and samples of mineral to organism.	Mineral	- Macro mineral - Micro mineral	FG . Winarno (1992) John.M.de Man (1997)
8.	Students can explain definition, classification, advantages, dangerous of contaminant in food Students can write the examples.	Contaminant	 Natural contaminant Contamination during food processing Contamination because of microorganism Contamination because of polution 	Belitz,HDet all (2000) Sudarmadji,Slamet,dkk (1989) Anom,(1989)
9.	Students can explain definition, classification, advantages, dangerous of additive in food Students can give the examples.	Additive	 Preservatives Stabilizers Thickening agents Flavor enhancers Beverages Coloring agents 	Belitz,HDet all (2000) Sudarmadji,Slamet,dkk (1989) Anom.(1989)
10.	Students can explain definition, classification, advantages, dangerous of metabolite subtances in food Students can give the examples.	Metabolite subtance	Useful metabolite subtances Unuseful metabolite subtance	Belitz,HDet all (2000) Sudarmadji,Slamet,dkk (1989) Anom,(1989)

TEACHING CONTRACTS

SUBJECT

: Food Chemistry

CODE

: KUG224P

CODE

. NOG

SCS

: 3

SEMESTER

: 11

SUBJECT SUPERVISOR : LECTURER :

: Tim teaching

DAY / TIME

: Monday

LOCATION

: Class D

1. ADVANTAGE OF SUBJECT

Food is one of important human basic need. During food production and consumtion, many changes event possitve or negative.

Half of that changes because of chemistry reaction in food or because of changes of environment.

Food chemistry is very important so students suggested can learn to contribute another subject.

2. SUBJECT DESCRIPTION

In this subject will explained about macro nutrient, micro nutrient, contaminant, additive, and metabolite subtance.

3. INTRUCTIONAL TARGET

TARGET OF GENERAL INSTRUCTIONAL

After finish this subject students can resume association food chemistry othet nutrition science branchs.

TARGET OF SPECIFIC INSTRUCTIONAL

After finish this subject students can:

- 1. Explain about macro nutrient
- 2. Explain about micro nutrient
- 3. Explain about contaminant
- 4. Explain about additive
- 5. Explain about metabolite subtance

4. TEACHING STRATEGY

To reach the target of this subject, arranged various method and medium of education. Teaching methods will be used are:

Discourse and discussion.

In few times of meeting gave discourse than test.

This assignment according to theory during class and literature.

5. REFERENCE

Literature of this subject are:

 Arun, Bahl, (1979), Advanced Organic Chemistry, first editions, Chand Company, Ltd, New Delhi

2. Anom, (1989), **Pengantar dan Petunjuk anaalisa Pangan**, PAU Paangan dan GIZI Universitas Gadjah mada, Yogyaakaarta

- 3. Belitz, HD et all, 2004), Food Chemistry, third edition, springen, Tokyo
- 4. Edwin, TM, (1960), Elementary Biochemistry, first editions, Burgess Publishing Company, Ninessota.
- 5. F.G. Winarno , (1992), **Kimia Pangan dan Gizi** , PT Gramedia Pustaka Utama, Jakarta
- 6. Kroschuitz, JL and Winokur, M (1990), Chemistry, General Organic Biological, Mc Graw Hill Publishing Company, Sydney
- 7. Sudarmadji, Slaamet; haryono , bambang dan Suhardi, (1989), **Analisa Bahan Makanan dan Pertanian**,edisi I, Liberty dan PAU Universitas
 Gadjah Mada , Yogyakarta
- 8. John. M. De Man, Kimia Makanan, Edisi Kedua, Penerbit ITB Bandung, 1997.

6. ASSIGNMENT

- 1. Students must do food chemistry practice following pre-test.
- 2. Students must make practical report (objective, theory and conclution).

7. SCORING

Value	Point	Rarge
A	4	
AB	3,5	
В	3	
BC	2,5	
С	2	
CD	1,5	
D	1	
E	0	

To determine final score, will used:

To determine imai score, win used.		
Practice test	%	
Mid test	%	·
Final test + assignment	%	

8. TEACHING SCHEDULE

MEETING SCI	TOPIC	LECTURER
<u> </u>	Water	Dra. Murnaah, Apt.
	Protein	Drs. Gunardi, MS., Apt
IV & V	Vitamin	Dr. Aryoko Widodo
VI & VII	Carbohydrate	Dra. Murnah, Apt.
VIII	Mid Test	Tim
IX & X	Lipid	Drs. Gunardi, MS., Apt.
XI	Mineral	Dr. Aryoko Widodo
XII	Contaminant	Drs. Gunardi, MS., Apt.
XIII & XIV	Additives	Drs. Gunardi, MS., Apt.
XV	Metabolite subtances	Drs. Gunardi, Ms., Apt.
XVI	Final Test	Tim

SUBJECT

: Food chemistry

CODE

: KUG224 P

SCS

: 3

LECTURER

: Dra. Murnah, Apt.

DAY

: Monday

MEETING

:1

A. INTRUCTIONAL TARGET

TARGET OF GENERAL INSTRUCTIONAL

After finish this subject students can explain definition of water, bonds in water, water in foods, and water content analysis.

TARGET OF SPECIFIC INSTRUCTIONAL

Students can write water molecule structure, covalent bond, and water molecule interaction, type of water, solution in water, water content analysis.

B. TOPIC

: WATER

C. SUB TOPIC

- 1. Water chemistry.
- 2. Covalent bond, and water molecule interaction.
- solution in water.
- 4. Water in food.
- 5. Water content analysis.

D ACTIVITY OF TEACHING

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING	
OPENING	Explain definition of water, source and used in food. Explain competention, TGI and TSI	Focus, write, ask	Whiteboard, spidol & OHP	
TEAGHING	1. Water chemistry, chemical structure, electrons in water subtances. Write water chemical structure. 2. Explain water covalent bond. Explain water molecule interaction. Pictures of bonds. Types of water: water in ice, water became gas, dispersi. 3. Water in food: according			
	to water interaction degree: Type I, II, III, IV.			

	4. Water content analysis: drying, destilation, use refractometer.
CLOSING	Ask to students about the topic. Explain the answer of students to judge successfully teaching. Correct the answer.

E. EVALUATION: Multiple choise test and assay.

F. REFERENCE:

- 1. F.G. Winarno (1992) Kimia Pangan Dan Gizi, Edisi ke 6
- 2. PT Gramedia Pustaka Utama , Jakarta.
- 3. John. M. de Man (1997) , Principle of food chemistry
- 4. (alih bahasa Padmawinata, Kosasih , Kimia Makanan), Edisi ke 2 ITB Bandung, Bandung.

SUBJECT

: Kimia Makanan

CODE

: KUG224 P

SCS

: 3

LECTURER

: dr. Aryoko Widodo

DAY

: Monday

MEETING

: IV, V

A. INTRUCTIONAL TARGET

TARGET OF GENERAL INSTRUCTIONAL

After finish this topic, students know about vitamin in food.

TARGET OF SPECIFIC INSTRUCTIONAL

Students can explain definition, classification, types and use of vitamin in food.

B. TOPIC

: Vitamin chemistry

C. SUB TOPIC : 1. Fat soluble vitamin

2. Water soluble vitamin

D. ACTIVITY OF TEACHING

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
OPENING	Explain definition and advantages of vitamin. Explain competention, TGI and TSI	Focus, write, ask	Whiteboard, spidol & OHP
TEACHING	Fat soluble vitamin. Explain structure, chemical type and the role from vitamin A, D, E, K in food. Water soluble vitamin. Explain structure, chemical type and the role from vitamin B, C in food.	Focus, write, ask	Whiteboard, spidol & OHP
CLOSING	Ask to students about the topic. Explain the answer of students to judge successfully teaching. Correct the answer.		

E. EVALUATION : Multiple choise test and assay

F. REFERENCE

- F.G. Winarno (1992) Kimia Pangan Dan Gizi, Edisi ke 6, PT Gramedia Pustaka Utama, Jakarta.
- 2. John. M. de Man (1997) ,Principle of food chemistry, (alih bahasa Padmawinata,Kosasih ,Kimia Makanan), Edisi ke 2 ITB Bandung, Bandung.

SUBJECT

: Food chemistry

CODE

: KUG224 P

SCS

: 3

LECTURER

: Dra. Murnah, Apt.

DAY

: Monday

MEETING

: VII, VIII

A. INTRUCTIONAL TARGET

TARGET OF GENERAL INSTRUCTIONAL

After finish this topic, students can explain about definition, source, and use of carbohydrate.

TARGET OF SPECIFIC INSTRUCTIONAL

Students can classify, wirte nomenclature, isomerization, and identificate carbohydrate.

B. TOPIC

: Carbohydrate

C. SUB TOPIC

- 1. Classification, nomenclature, isomerisation, and source of carbohydrate.
- 2. Simple carbohydrate
- 3. Complex carbohydrate
- 4. Carbohydrate Identifikation

D. ACTIVITY OF TEACHING

ACTIVITY		ACTIVITY OF LECTURER	ACTIVI STUDI	TY OF ENTS	TOOLS OF TEACHING
OPENING	2.	Explain definition of carbohydrate, the source and use on health science and association with another science. Explain competention, TGI and TSI.	Focus, ask	write,	Whiteboard, spidol & OHP
TEACHING	1	Classification, nomenclature, isomerisation, and source of carbohydrate. Explain Classification of carbohydrate following nomenclature and examples. Write examples, enansioner, diastereoisomer, emimer and anomer from monosakaride. Explain source of common carbohydrate from plant and animal.	ask	write,	Whiteboard, spidol & OHP

2. Simple carbohydrate. Differentiate aldosa and ketosa following examples. Write oksidation reactions, reduction and dehidration from monosacarides. Explain roud form of monosakarida. 3. Complex carbohydrate. Differentiate oligosakarida and	
polisakarida following examples. Write and type nature of sakarosa,maltosa,sellobiosa and laktosa. Differentiate pentosan and heksosa following examples. Explain structure and how to use amylum,glycogen, and sellulosa. Explain amylum hydrolisa. 4. Carbohydrate Identifikation. Demonstrate common reaction to carbohydrate. Demonstrate reactions to carbohydrate reduction. Demonstrate Seliwanoff reactions to fructosa and osazon reaction to monosakarida reduction and disakarida reduction.	
CLOSING 1. Ask to students about the topic. 2. Explain the answer of students to judge successfully teaching. 3. Correct the answer.	

E. EVALUATION : Multiple choise test and assay

F. REFERENCE:

Arun Bahl and B.S Bahl (1979) Advanced Organic Chemisty, First edition. Chand and Company. Ltd, New Delhi.

2. Edwin T. Merzt (1960), Elementrary Biochemistry, Firt edition, Burgess Publising Company, Minessota.

3. West & Todd (1961), textbook of Biochemistry, Third edition, The Macmillan Company, New York.

OUTLINES PROGRAM OF EDUCATION

SUBJECT

: Research Methodology

CODE/SCS

: KUG224P / 3

SEMESTER

: II

DESCRIPTION

In this subject learned basics of basic research methodology which applicate on research proposal.

TARGET OF GENERAL INSTRUCTIONAL

After follow this subject, students can arrange research proposal.

			Sub Topic	Literature
No. 1.	Can explain how important nutrition research on nutrition science and technology development	Definition and scope of nutrition research.	1.1. Research definition 1.2. Research objective 1.3. Nutrition research scope	 Sastroasmoro S. Dasardasar metodologi penelitian klinis, 2002. Pratiknya AW. Dasardasar metodologi penelitian kedokteran dan kesehatan, 1986. Singarimbun M. Metode penelitian survai, 1989.
2.	Can explain how to arrange research proposal	How to arrange research proposal Problem formulation and	2.1. Research steps 2.2. How to arrange good research proposal 3.1. Definition of research problem	
3.	Can explain problem formulation and research objective	research objective	3.2. Formulate research problems correctly.3.3. The important of research objective.3.4. Formulate research objective	

	·		C-1 Tio	Literature
No.	Target of Specific Instructional	<u>Topic</u>	Sub Topic	Literature
4.	Can explain theory framework, consept	Theory framework, consept	4.1. Theory framework	1
4.	framework, variable, and research	framework, variable, and	4.2. Consept framework	
		research hipothesis	4.3. Definition of variable	
:	hipothesis		4.4. Definition of hipothesis	
	a li - i ave concerb planning	Research planning	5.1. Definition of research planning	
5.	Can explain various research planning	Resourch planning	5.2. Survey research planning	
			5.3. Intervensional/eksperimental	
	i i		research planning	<u> </u>
		Population and sample	6.1. Definition of population and	
6.	Can explain population and sample	Population and sample	sample	
			6.2. Some way to chose sample	
	O 1 is receipt instrument and	Research instrument and data	7.1. Definition of research	
7.	Can explain research instrument and	collecting	instrument	
	data collecting	Conceang	7.2. Data collecting technique	
	O Linear and data	Processing and data analysis	8.1. Data collecting	
8.	Can explain processing and data	1 Toccasting and date the same	8.2. Data Analysis	
	analysis	How to write research report	9.1. Report Systematic	- Junadi P. Pengantar analisis
9.	Can explain how to write research	How to write research report	9.2. How to write research report	data, 1995.
	report		9.3. How to write bibliography	
	i	Decemb proposal	10.1. Research proposal	
10.	Can arrange research proposal	Research proposal	presentation of each student	
	presentation	presentation	· prooritation of their views	<u></u>

SUBJECT : Research Methodology

CODE : KUG241

SCS

TIME : 2 x 50 min

MEETING

A. Instructional Target

1. TARGET OF GENERAL INSTRUCTIONAL

After follow this subject, students can arrange research proposal without view class note.

2. TARGET OF SPECIFIC INSTRUCTIONAL

Students can explain definition and scope of nutrition research methodology (80% correct).

B. Topic : Definition and scope of nutrition research methodology.

C. Sub topic :

- 1. Research definition
- 2. Research objective
- 3. Nutrition research scope

D. Activity of Teaching

ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
Explain topic of meeting I Explain the advantage of nutrition research methodology To this competention, TGI and TSI	Focus	OHP/Transparancy OHP/Transparancy OHP/Transparancy
	Explain topic of meeting 1	Explain topic of meeting 1 Explain the advantage of nutrition research methodology Focus

Teaching	 Research definition Ask about definition of research nutrition Write student answer on whiteboard Give comment and conclute definition of research nutrition Research objective Ask about objective of research nutrition Write student answer on whiteboard Give comment and conclute objective of research nutrition Nutrition research scope Ask about scope of research nutrition Write student answer on whiteboard Give comment and conclute scope of research nutrition 	Answer and ask Focus and answering question	OHP/transparancy Whiteboard
losing	Close class: Give question to 3-4 students about the topic. Give clarification to student answer. Ask to student about unclear lesson. Give more explanation Give short explanation about next meeting.	Answer question Focus and comment	 Whiteboard OHP/transparancy

- 1. Lemeshow S, et al. Adequacy of sample size in health studies. WHO, 1990.
- 2. Sastroasmoro S, Ismael S. Dasar-dasar metodologi penelitian klinis. Binarupa Aksara, Jakarta. 1995.
- 3. Pratiknya A W. Dasar-dasar metodologi penelitian kedokteran dan kesehatan. C.V Rajawali, Jakarta, 1986.
- 4. Junadi, P. Pengantar analisis data. PT. Rineka Cipta, Jakarta, 1995.
- 5. Sumartono R.W. Metode penelitian kesehatan, penuntun latihan metode penelitian (terjemahan dari Health research methodology, A guide for training in research methods), PT Gramedia, Jakarta, 1999.

SUBJECT

: Research Methodology

CODE

: KUG241

SCS

: 2

TIME

: 2 x 50 min

MEETING

: II

A. Instructional Target

1. TARGET OF GENERAL INSTRUCTIONAL

After follow this subject, students can arrange research proposal without view class note.

2. TARGET OF SPECIFIC INSTRUCTIONAL

Students can explain how to arrange research proposal (80% correct).

B. Topic

: How to arrange research proposal.

C. Sub topic:

1. Research steps

2. How to arrange good research proposal

D. Activity of Teaching

ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
 Explain topic of meeting II Explain the advantage of nutrition research methodology Explain competention, TGI and TSI 	Focus	OHP/TransparancyOHP/TransparancyOHP/Transparancy
	Explain topic of meeting II Explain the advantage of nutrition research methodology	1. Explain topic of meeting II 2. Explain the advantage of nutrition research methodology

Tanahina	1. Research steps	Answer and ask	 OHP/transparancy
Teaching	Ask about research steps of research nutrition Write student answer on whiteboard Give comment and conclute research steps of research nutrition	Focus and answering question	Whiteboard
	 2. How to arrange good research proposal Ask about how to arrange good research proposal Write student answer on whiteboard Give comment and conclute how to arrange good research proposal 		
Closing	 Close class: Give question to 3-4 students about the topic. Give clarification to student answer. Ask to student about unclear lesson. Give more explanation Give short explanation about next meeting. 	Answer question Focus and comment	Whiteboard OHP/transparancy

- 4. Pratiknya A W. Dasar-dasar metodologi penelitian kedokteran dan kesehatan. C.V Rajawali, Jakarta, 1986.
- 5. Singarimbun M. Metode penelitian survai, 1989.
- 6. Lemeshow S, et al. Adequacy of sample size in health studies. WHO, 1990.
- 7. Sastroasmoro S, Ismael S. Dasar-dasar metodologi penelitian klinis. Binarupa Aksara, Jakarta, 1995.
- 8. Junadi, P. Pengantar analisis data. PT. Rineka Cipta, Jakarta, 1995.
- 9. Sumartono R.W. Metode penelitian kesehatan, penuntun latihan metode penelitian (terjemahan dari Health research methodology, A guide for training in research methods), PT Gramedia, Jakarta, 1999.

SUBJECT

: Research Methodology

CODE

: KUG241

SCS

: 2

TIME

: 2 x 50 min

MEETING

: III

A. Instructional Target

1. TARGET OF GENERAL INSTRUCTIONAL

After follow this subject, students can arrange research proposal without view class note.

2. TARGET OF SPECIFIC INSTRUCTIONAL

Students can explain problem formulation and research objective (80% correct).

B. Topic

: Problem formulation and research objective.

C. Sub topic

- 1. Definition of research problem.
- 2. Research problems formulation.
- 3. Research objective formulation.
- E. Activity of Teaching

ACTIVITY		ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
Opening	1.	Explain topic of meeting III Explain the advantage of nutrition research methodology	Focus	OHP/Transparancy OHP/Transparancy
	3.	Explain competention, TGI and TSI		OHP/Transparancy

			OUTD/
Teaching	Definition of research problem. Ask about research problem of research nutrition Write student answer on whiteboard Give comment and conclute research problem of research nutrition	Answer and ask Focus and answering question	OHP/transparancy Whiteboard
	 Research problems formulation. Ask about problems formulation of research nutrition Write student answer on whiteboard Give comment and conclute problems formulation of research nutrition Research objective formulation. 		
	 Ask about objective formulation of research nutrition Write student answer on whiteboard Give comment and conclute objective formulation of research nutrition 		
Closing	Close class: Give question to 3-4 students about the topic. Give clarification to student answer. Ask to student about unclear lesson. Give more explanation	Answer question Focus and comment	Whiteboard OHP/transparancy
:	Give short explanation about next meeting.		

E. Referensi:

- Pratiknya A W. Dasar-dasar metodologi penelitian kedokteran dan kesehatan. C.V Rajawali, Jakarta, 1986.
- Singarimbun M. Metode penelitian survai, 1989.
- Lemeshow S, et al. Adequacy of sample size in health studies. WHO, 1990.
- Sastroasmoro S, Ismael S. Dasar-dasar metodologi penelitian klinis. Binarupa Aksara, Jakarta, 1995.
- Junadi, P. Pengantar analisis data. PT. Rineka Cipta, Jakarta, 1995.
- Sumartono R.W. Metode penelitian kesehatan. penuntun latihan metode penelitian (terjemahan dari Health research methodology, A guide for training in research methods), PT Gramedia, Jakarta. 1999.

SUBJECT

: Research Methodology

CODE

: KUG241

SCS

: 2

TIME

: 2 x 50 min

MEETING

· rv

A. Instructional Target

1. TARGET OF GENERAL INSTRUCTIONAL

After follow this subject, students can arrange research proposal without view class note.

2. TARGET OF SPECIFIC INSTRUCTIONAL

Students can explain theory framework, consept framework, variable, and research hipothesis (80% correct).

B, Topic

: Theory framework, consept framework, variable, and research hipothesis.

C. Sub topic

- 1. Theory framework
- 2. Consept framework
- 3. Definition of variable
- 4. Definition of hipothesis
- F. Activity of Teaching

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
Opening	 Explain topic of meeting IV Explain the advantage of nutrition research methodology Explain competention, TGI and TSI 	Focus	OHP/TransparancyOHP/TransparancyOHP/Transparancy

1			1
Teaching	 1. Theory framework Ask about theory framework of research nutrition Write student answer on whiteboard Give comment and conclute theory framework of research nutrition 	Answer and ask Focus and answering question	OHP/transparancy Whiteboard
	 Consept framework Ask about consept framework of research nutrition Write student answer on whiteboard Give comment and conclute consept framework of research nutrition 		
	 Definition of variable Ask about variable definition of research nutrition Write student answer on whiteboard Give comment and conclute variable definition of research nutrition 		
	 Definition of hipothesis Ask about hipothesis definition of research nutrition Write student answer on whiteboard Give comment and conclute hipothesis definition of research nutrition 		
Closing	Close class: Give question to 3-4 students about the topic. Give clarification to student answer. Ask to student about unclear lesson.	Answer question Focus and comment	Whiteboard OHP/transparancy
	Give more explanation Give short explanation about next meeting.		

- Pratiknya A W. Dasar-dasar metodologi penelitian kedokteran dan kesehatan. C.V Rajawali, Jakarta, 1986.
- Singarimbun M. Metode penelitian survai, 1989.
- Lemeshow S, et al. Adequacy of sample size in health studies. WHO, 1990.
- Sastroasmoro S, Ismael S. Dasar-dasar metodologi penelitian klinis. Binarupa Aksara, Jakarta, 1995. 4.
- Junadi, P. Pengantar analisis data. PT. Rineka Cipta, Jakarta, 1995. 5.
- Sumartono R.W. Metode penelitian kesehatan, penuntun latihan metode penelitian (terjemahan dari Health research methodology, A guide for training in research methods), PT Gramedia, Jakarta, 1999. 6.

SUBJECT

: Research Methodology

CODE

: KUG241

SCS

: 2

TIME

: 2 x 50 min

MEETING

: V

A. Instructional Target

1. TARGET OF GENERAL INSTRUCTIONAL

After follow this subject, students can arrange research proposal without view class note.

2. TARGET OF SPECIFIC INSTRUCTIONAL

Students can explain various research planning (80% correct).

B. Topic

: Research planning

C. Sub topic:

- 1. Definition of research planning
- 2. Survey research planning
- 3. Intervensional/eksperimental research planning

D. Activity of Teaching

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
Opening	 Explain topic of meeting V Explain the advantage of nutrition research methodology Explain competention, TGI and TSI 	Focus	OHP/TransparancyOHP/TransparancyOHP/Transparancy

Teaching	Definition of research planning Ask about definition of research planning of research nutrition Write student answer on whiteboard Give comment and conclute definition of research planning of research nutrition	Answer and ask Focus and answering question	OHP/transparancy Whiteboard
	Survey research planning Ask about survey research planning of research nutrition Write student answer on whiteboard Give comment and conclute survey research planning of research nutrition		
	 3. Intervensional/eksperimental research planning Ask about intervensional/eksperimental research planning of research nutrition Write student answer on whiteboard Give comment and conclute intervensional/eksperimental research planning of research nutrition 		
Closing	Close class: Give question to 3-4 students about the topic. Give clarification to student answer. Ask to student about unclear lesson. Give more explanation	Answer question Focus and comment	Whiteboard OHP/transparancy
:	Give short explanation about next meeting.		<u></u>

- 1. Pratiknya A W. Dasar-dasar metodologi penelitian kedokteran dan kesehatan. C.V Rajawali, Jakarta, 1986.
- 2. Singarimbun M Metode penelitian survai, 1989.
- 3. Lemeshow S, et al. Adequacy of sample size in health studies. WHO, 1990.
- 4. Sastroasmoro S, Ismael S. Dasar-dasar metodologi penelitian klinis. Binarupa Aksara, Jakarta, 1995.
- 5. Junadi, P. Pengantar analisis data. PT. Rineka Cipta, Jakarta, 1995.
- 6. Sumartono R.W. Metode penelitian kesehatan, penuntun latihan metode penelitian (terjemahan dari Health research methodology, A guide for training in research methods), PT Gramedia, Jakarta, 1999.

SUBJECT : Research Methodology

CODE : KUG241

SCS : 2

TIME : 2 x 50 min

MEETING : VI

A. Instructional Target

1. TARGET OF GENERAL INSTRUCTIONAL

After follow this subject, students can arrange research proposal without view class note.

2. TARGET OF SPECIFIC INSTRUCTIONAL

Students can explain population and sample (80% correct).

B. Topic : Population and sample

C. Sub topic:

1. Definition of population and sample

2. How to chose sample

D. Activity of Teaching

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
Opening	 Explain topic of meeting VI Explain the advantage of nutrition research methodology Explain competention, TGI and TSI 	Focus	 OHP/Transparancy OHP/Transparancy OHP/Transparancy

Teaching	 Definition of population and sample Ask about definition of population and sample of research nutrition Write student answer on whiteboard Give comment and conclute definition of population and sample of research nutrition How to chose sample Ask about how to chose sample of research nutrition Write student answer on whiteboard Give comment and conclute how to chose sample of research nutrition 	Answer and ask Focus and answering question	OHP/transparancy Whiteboard
Closing	Close class: Give question to 3-4 students about the topic. Give clarification to student answer. Ask to student about unclear lesson. Give more explanation Give short explanation about next meeting.	Answer question Focus and comment	Whiteboard OHP/transparancy

- 1. Pratiknya A W. Dasar-dasar metodologi penelitian kedokteran dan kesehatan. C.V Rajawali, Jakarta, 1986.
- 2. Singarimbun M. Metode penelitian survai, 1989.
- 3. Lemeshow S, et al. Adequacy of sample size in health studies. WHO, 1990.
- 4. Sastroasmoro S, Ismael S. Dasar-dasar metodologi penelitian klinis. Binarupa Aksara, Jakarta, 1995.
- 5. Junadi, P. Pengantar analisis data. PT. Rineka Cipta, Jakarta, 1995.
- 6. Sumartono R.W. Metode penelitian kesehatan, penuntun latihan metode penelitian (terjemahan dari Health research methodology, A guide for training in research methods), PT Gramedia, Jakarta, 1999.

SUBJECT

: Research Methodology

CODE

: KUG241

SCS

: 2

TIME

: 2 x 50 min

MEETING

: VII

A. Instructional Target

1. TARGET OF GENERAL INSTRUCTIONAL

After follow this subject, students can arrange research proposal without view class note.

2. TARGET OF SPECIFIC INSTRUCTIONAL

Students can explain research instrument and data collecting (80% correct).

B. Topic

: Research instrument and data collecting

C. Sub topic:

- 1. Definition of research instrument
- 2. Data collecting technique
- D. Activity of Teaching

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
Opening	Explain topic of meeting VII Explain the advantage of nutrition research methodology Explain competention, TGI and TSI	Focus	OHP/TransparancyOHP/TransparancyOHP/Transparancy

Teaching	 Definition of research instrument Ask about definition of research instrument of research nutrition Write student answer on whiteboard Give comment and conclute definition of research instrument of research nutrition Data collecting technique Ask about data collecting technique of research nutrition Write student answer on whiteboard Give comment and conclute data collecting technique of research nutrition 	Answer and ask Focus and answering question	OHP/transparancy Whiteboard
Closing	Close class: Give question to 3-4 students about the topic. Give clarification to student answer. Ask to student about unclear lesson. Give more explanation Give short explanation about next meeting.	Answer question Focus and comment	Whiteboard OHP/transparancy

- 1. Pratiknya A W. Dasar-dasar metodologi penelitian kedokteran dan kesehatan. C.V Rajawali, Jakarta, 1986.
- 2. Singarimbun M. Metode penelitian survai, 1989.
- 3. Lemeshow S, et al. Adequacy of sample size in health studies. WHO, 1990.
- 4. Sastroasmoro S, Ismael S. Dasar-dasar metodologi penelitian klinis. Binarupa Aksara, Jakarta, 1995.
- Junadi, P. Pengantar analisis data. PT. Rineka Cipta, Jakarta, 1995.
- 6. Sumartono R.W. Metode penelitian kesehatan, penuntun latihan metode penelitian (terjemahan dari Health research methodology, A guide for training in research methods), PT Gramedia, Jakarta, 1999.

SUBJECT

: Research Methodology

CODE

: KUG241

SCS

: 2

TIME

: 2 x 50 min

MEETING

: VIII

A. Instructional Target

1. TARGET OF GENERAL INSTRUCTIONAL

After follow this subject, students can arrange research proposal without view class note.

2. TARGET OF SPECIFIC INSTRUCTIONAL

Students can explain processing and data analysis (80% correct).

B. Topic

: Processing and data analysis

C. Sub topic:

- 1. Data collecting
- 2. Data Analysis
- D. Activity of Teaching

TEACHING
OHP/TransparancyOHP/TransparancyOHP/Transparancy

Teaching	Data collecting Ask about data collecting of research nutrition	Answer and ask	OHP/transparancy
	Write student answer on whiteboard Give comment and conclute definition of research instrument of research nutrition	Focus and answering question	Whiteboard
1	 Data analysis Ask about data analysis of research nutrition Write student answer on whiteboard Give comment and conclute data analysis of research nutrition 		
Closing	Close class: Give question to 3-4 students about the topic. Give clarification to student answer. Ask to student about unclear lesson. Give more explanation	Answer question Focus and comment	Whiteboard OHP/transparancy
ì	Give short explanation about next meeting.		

- a. Pratiknya A W. Dasar-dasar metodologi penelitian kedokteran dan kesehatan. C.V Rajawali, Jakarta, 1986.
- Singarimbun M. Metode penelitian survai, 1989.
- c. Lemeshow S, et al. Adequacy of sample size in health studies. WHO, 1990.
- Sastroasmoro S, Ismael S. Dasar-dasar metodologi penelitian klinis. Binarupa Aksara, Jakarta, 1995.
- Junadi, P. Pengantar analisis data. PT. Rineka Cipta, Jakarta, 1995.
- f. Sumartono R.W. Metode penelitian kesehatan, penuntun latihan metode penelitian (terjemahan dari Health research methodology, A guide for training in research methods), PT Gramedia, Jakarta, 1999.

SUBJECT

: Research Methodology

CODE

: KJUG241

SCS

: 2

TIME

: 2 x 50 min

MEETING

: IX

A. Instructional Target

1. TARGET OF GENERAL INSTRUCTIONAL

After follow this subject, students can arrange research proposal without view class note.

2. TARGET OF SPECIFIC INSTRUCTIONAL

Students can explain how to write research report (80% correct).

B. Topic

: How to write research report

C. Sub topic:

1. Report Systematic

- 2. How to write research report
- 3. How to write bibliography

D. Activity of Teaching

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
Opening	Explain topic of meeting IX Explain the advantage of nutrition research methodology Explain competention, TGI and TSI	Focus	OHP/TransparancyOHP/TransparancyOHP/Transparancy

•			
Teaching	Report Systematic Ask about report Systematic of research nutrition Write student answer on whiteboard Give comment and conclute report systematic of research nutrition	Answer and ask Focus and answering question	OHP/transparancy Whiteboard
	2. How to write research report • Ask about how to write research report of research nutrition • Write student answer on whiteboard • Give comment and conclute how to write research report of research nutrition		
	How to write bibliography Ask about how to write bibliography of research nutrition Write student answer on whiteboard Give comment and conclute how to write bibliography of research nutrition		
Closing	Close class: Give question to 3-4 students about the topic. Give clarification to student answer. Ask to student about unclear lesson. Give more explanation	Answer question Focus and comment	Whiteboard OHP/transparancy
	Give short explanation about next meeting.		

- a. Pratiknya A W. Dasar-dasar metodologi penelitian kedokteran dan kesehatan. C.V Rajawali, Jakarta, 1986.
- b. Singarimbun M. Metode penelitian survai, 1989.
- c. Lemeshow S, et al. Adequacy of sample size in health studies. WHO, 1990.
- d. Sastroasmoro S, Ismael S. Dasar-dasar metodologi penelitian klinis. Binarupa Aksara, Jakarta, 1995.
- e. Junadi, P. Pengantar analisis data. PT. Rineka Cipta, Jakarta, 1995.
- f. Sumartono R.W. Metode penelitian kesehatan, penuntun latihan metode penelitian (terjemahan dari Health research methodology, A guide for training in research methods), PT Gramedia, Jakarta, 1999.

SUBJECT

: Research Methodology

CODE

: KUG241

SCS

. 2

TIME

: 2 x 50 min

MEETING

: X, XI, XII, XIII, XIV, XV

A. Instructional Target

1. TARGET OF GENERAL INSTRUCTIONAL

After follow this subject, students can arrange research proposal without view class note.

2. TARGET OF SPECIFIC INSTRUCTIONAL

Students can arrange research proposal (80% correct).

B. Topic

: Arrange research proposal

C. Sub topic:

- 1. A range research proposal
- 2. Research proposal presentation
- D. Activity of Teaching

ACTIVITY	ACTIVITY OF LECTURER	ACTIVITY OF STUDENTS	TOOLS OF TEACHING
Opening	 Explain topic of meeting X, XI, XII, XIII, XIV, XV Explain the advantage of nutrition research methodology Explain competention, TGI and TSI 	Focus	OHP/TransparancyOHP/TransparancyOHP/Transparancy

Feaching	Ask about resear Write student a	research proposal presentation arch proposal content of research nutrition nswer on whiteboard and conclute research proposal content of on	Answer and ask Focus and answering question	OHP/transparancy Whiteboard
Closing	Give clarification Ask to student a Give more explain	3-4 students about the topic. In to student answer. In to bout unclear lesson. In the student answer. In anation In anation about next meeting.	Answer question Focus and comment	Whiteboard OHP/transparancy

- a. Pratiknya A W. Dasar-dasar metodologi penelitian kedokteran dan kesehatan. C.V Rajawali, Jakarta, 1986.
- b. Singarimbun M. Metode penelitian survai, 1989.
- c. Lemeshow S, et al. Adequacy of sample size in health studies. WHO, 1990.
- d. Sastroasmoro S, Ismael S. Dasar-dasar metodologi penelitian klinis. Binarupa Aksara, Jakarta, 1995.
- e. Junadi, P. Pengantar analisis data. PT. Rineka Cipta, Jakarta, 1995.
- f. Sumartono R.W. Metode penelitian kesehatan, penuntun latihan metode penelitian (terjemahan dari Health research methodology, A guide for training in research methods), PT Gramedia, Jakarta, 1999.

OUTLINES PROGRAM EDUCATION

GARIS-GARIS BESAR PROGRAM PENGAJARAN

SUBJECT

: Determination of Nutrition Status

CODE/SCS

: KUG334P / 3 SCS

SEMESTER

: III

DESCRIPTION

This subject study about basic concept, principal, & way to score nutrition status and its applying on people and group of society

GENERAL INSTRUCTIONAL TARGET

After finishing this study students are expected can make scoring nutrition status and its applying on people and group of society

N o	Specific Instructional Target	Topic	Sub topic	Time estim ation	Referenc e
	 Explain reality of nutrition status Explain reality of nutrition status scoring Explain influencing factors of nutrition status 	Reality of nutrition status & scoring of nutrition status	- definition & nutrition status principal - definition & scoring of nutrition status principal - influencing factors of nutrition status - method of nutrition status	20 30 80	Almastier Prinsip Dasae Ilmu Gizi. Gramedia, Jakarta 2. Gibson RS. 1990. Principl
2	- Explain natural history of nutrition problem	Problem of nutrition & Its relation	scoring -nature history of nutrition problem -agent of nutrition -problem	50 60 50	es of Nutritio nal Assesm ent
	 Explain agent of nutrition problem Explain host of nutrition problem Explain environment of nutrition problem Explain basic concept of growth Explain type of growth 	with agent, host, & environment	-host -environment	40 30	Oxford Universi ty New york 3. Gibson RS. 1990. Principl
3	- Explain reality of	Growth as	- basic concept of	30	es of

		antropometri	basic		growth		Nutritio
Į	-	Explain type of	anatropometr	-	type of growth	30	nal
		antropometri	i of nutrition	-	definition &	40	Assesm
		measure based on			principal	50	ent.
		growth			antropometri		Laborat
	_	Explain benefit &		-	type of	50	ory
		loss of antropometri			antropometri		Oxford
		1005 of anti-opo	,		measurement	•	Universi
			•	_	excess & lack		ty New
	<u>.</u>				of antropometri		York
1		Cambria modity of	Parameter	1_	definition &	20	4.
	-	Explain reality of		-	principal		Howsto
		antropometri	antropometri			60	n, CP,
		parameter		-	type of	00	kennedy
	-	Mention type of			parameter	20	.1998.
		antropometri		-	definition of	20	1 1
	[parameter			measurement	20	Preventi
	-	Explain reality of		-	·) I*	20	on of
		size of body			measurement		Micronu
		composition		-	method	60	trient
	_	Explain type of size	**************************************				Deficien
	ļ	of body					cies.
		compositionmeasure					National
		ment		1			Accade
_			Index of		definition	20	myPress
5	-	Explain reality of	1	1		30	1
		antropometri index	nutrition		type	40	Washin
	-	Explain type of	antropometri	- 1	Index for children	3	
		antropometri index		i	-benefit & loss	20	gton
	_	Explain			-Index for adult	45	
		antropometri index			- benefit & loss	20	
		for children & baby		-			
	<u>-</u>	Explain benefit &					
		loss of antropometri				1	
		index for children &					
		baby					
	-	Explain					
**********	-	antropometri index				_	
_		for adult & teenager			-mistakes in	20	
6	-	Explain mistakes in	Quality			20	
		measuring	Control data		measurement	20	
	-	Explain reality of	of		-Definition &	30	
		precission	antropometri		basic principal of		
	_	Explain reality of	& body		presicion		
	Į	accuration	composition		-definition & basic	30	
		Apply precission &			principal of	1	
	-	accuration test			accuration		
		accuration test			-tehenique	100	***
			ŧ		Contoninguo	1 .00	

7		Euplain trees of	Technique of	-type of	20		
7	-	Explain type of	antropometri	antropometri		***	
		antropometri index	nutrition	account			
		calculation	account	-technique of	60		
	-	Apply technique	account	percentile			
]		percentil calculation		-technique of	40		
	-	Apply technique		percent median	10		
į		percent median		1	60		
		calculation		-technique of Z	00		
	-	Apply technique Z		score			
		Score calculation		J., C., (4), 0,	20		
8	~	Explain reality of	Standart	-definition &	20	į.	
		standart	application,	standart principal	20		
	-	Explain reality of	reference	-definition &	20		
		reference		standart reference	50		
	_	Explain type of		-type of standart	50		
		reference standart		reference	0.0		
	_	Explain various		- various method	90		
		method of nutrition					
		status classification					
9	-	Mentioned type of	Measurement	-type of	30		
		food consumption	of food	Measurement of			
		measurement	consumption	food consumption			
	-	Explain purpose,		-purpose, target &	60		
		target, & principal		princip of each			
		of each food		Measurement of			
		consumption		food consumption			
		measurement		-source of mistake	30		
	_	Explain sources of		-evaluation of	60		
		mistaken in food		Measurement of			
		consumption		food consumption			
		measurement	İ	A A A A A A A A A A A A A A A A A A A		A STATE OF THE STA	
	_	Explain scoring of				-	
		food consumption	-				
ļ		measurement					
10	_	Explain ecology	Relation	- ecology factors	120		
'		factors which	between	which			
		influence nutrition	ecology	influence		•	
		status	fctors & vital	nutrition status			
	_	Explain vital	statistic with	- vital statistic	60		
		statistic which	nutrition	which			
		influence nutrition	status	influence			
		status		nutrition status			
11	_	Explain principal of	Scoring of	-principal of	20		
11	-	nutrition status	nutrition	Scoring of			
		scoring clinically	status	nutrition status			
		Explain benefit and	Julias	-benefit & loss	30		
L		Explain belieff and					

	T	loss of nutrition		-classification	60		
		status scoring		-interpretation	70		
		clinically					
	-	Explain					
		classification of			-		
		nutrition status					
		scoring clinically				1.	
	-	Explain					
		inerpretation of	,				
		nutrition status			į		
		scoring clinically	Scoring of	-principal	20		
12	2 -	L	nutrition	-benefit & loss	40		
		status scoring	status	- Scoring of	120		
		biochemicaly - Explain benefit and	biocemically	nutrition status			
		loss of nutrition	Olocollitoani	biocemically on			
		status scoring		Various nutrition			
Ì		biochemically					
		- Explain nutrition					
ĺ		status scoring					
		biochemically based					
		on type of nutrient					
1	3	- Explain benefit and	Scoring of	-principal	20		
		loss of 1 utrition	nutrition	-benefit & loss	40		
Ì		status scoring	status	- Scoring of	40		
	ļ	biophysically	biophysically	nutrition status			
		 Explain nutrition 		biophysically Various nutrition			
		status scoring		1 377 2 377	80		
		biophysically		-method	80	and a second sec	
}		- Explain type					
		ofnutrition status	Va de de Calendra				
		scoring					
		biophysically				1	
		 Explain nutrition status scoring 					
		method					
		biophysically					
	14	- Mention type of	Scoring of	- type of	30		
	- •	nutrition status	nutrition	Scoring of	' 		
		scoring in hospital	status in	nutrition			
		- Mention method of	hospital	status in			
		nutrition status		hospital	00		
		scoring in hospital		- method	80		
		- Mention reality of		- reality	30		
}		rnethod of nutrition		- according	40		
		status scoring in		to used			

hospital		
- Mention according	,	
to used of nutrition		
status scoring in		
hospital		

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CONTRACT LECTURING.

· : Determination of Nutrition Status SUBJECT

: KUG334P CODE : 3 SCS SCS

: III SEMESTER

: Ali Rosidi, SKM,M Si SUPERVISOR : Wednesday 14.00-17.00 SCHEDULE

· Room F MEETING PLACE

1. BENEFIT

Quality of human resource is not quit of its health. Healthy Body human being need various type of nutrient to execute its everyday activity. Health coming from pattern food consumptio or life style in consuming everyday food, to look in the form of situation of status or nutrition.

Because its problem, this study require to be submitted to utilize to assist student obtain the understanding of comprehensive and also can apply it in scoring status of nutrition to society group and also individual.

2. DESCRIPTION

This study including matery of basic concept, principal & way to scoring nutrition status and its applying to society & individu. Each topic will be submitted by relate it or giving examples of problem that happened in society.

3. INSTRUCTIONAL TARGET

TIU

Having completed this subject, student expected can unite elementary concept nutrition science to constitute and formulate concept in next nutrition science

TIK

After following this study student will be able to :

- 1. explain basic concept nutrition status scoring
- 2. apply principal of nutrition status scoring on individu & society

LECTURING STRATEGY 4.

The method of this study are discoursing, strategy of active learning & strategy of collaborative cooperative study

Book / fundamental reading in this lecturing are: 5

- 1. Almastier.Prinsip Dasar Ilmu Gizi. Gramedia, Jakarta
- 2. Gibson RS. 1990. Principles of Nutritional Assesment. Oxford University New york

- 3. Gibson RS. 1990. Principles of Nutritional Assesment. Laboratory Oxford University New York
- 4. Howston, CP, kennedy.1998. Prevention of Micronutrient Deficiencies. National AceademyPress. Washington

6 DUTY

There are some certain topic which oblige student make duty, that is in the form of handing out, made to team each 3 student. Each student given time 3 day of to finish the duty.

7 ASSESMENT CRITERIA

Assesment is conducted according to regulation from Program Study.

Absence : 5%
Group duty : 15%
Individual duty : 20%
Activity in class : 10%
UTS : 20%
UAS : 30%

8 SCHEDULE

Meeting at	Topic	Reference
1	Reality of nutrition status & scoring of	Same with point 5
	nutrition status	
2	Nutrition problem & it relation between	
	agent, host, & environment	
3	Growth as basic of nutrition antropometri	
4	Parameter antropometri & measurement of	
	body composition	
5	Index of Nutrition antropometri	
6	Quality control of data antropometri 7 body	
	composition	
7	Technique accounting of antropometri	
	nutrition index	
8	Standart Application, Reference, &	
	Nutrition Status classification	
9	Measurement of food consumption	
10	Relation between ecology factor & vital	
	statistic with nutrition status	
11	Nutrition status scoring clinically	
12	Nutrition status scoring biochemically	
13	Nutrition status scoring biophysically	
14	Nutrition status scoring in hospital	

UNIT of EVENT INSTRUCTION

(SATUAN ACARA PENGAJARAN/SAP)

SUBJECT : Determination of Nutrition Status

CODE : KUD334P SCS (System Credit Semester) : 3 SCS

TIME MEETING : 3 X 60 Minutes

MEETING : 1,2

A. INSTRUCTIONAL TARGET

1. TIU: student can execute nutrition status scoring to individual or society

2. TIK (meeting 1)

- a. After following this study student can explain reality of nutrition status
- b. After following this study student can explain reality of nutrition status scoring
- c. After following this study student can explain factors which influence nutrition status
- d. After following this study student can explain method of of nutrition status scoring
- e. After following this study student can explain nature history of nutrition status
- f. After following this study student can explain agent of nutrition status problem
- g. After following this study student can explain host of nutrition status problem
- h. After following this study student can explain environment of nutrition status problem

TIK (meeting 2)

- a. After following this study student can explain basic concept of growth
- b. After following this study student can explain type of growth
- After following this study student can explain reality of antropometri
- d. After following this study student can explain type of measurement
- e. After following this study student can explain benefit & loss of antropometri measurement
- f. After following this study student can explain reality of antropometri parameter
- g. After following this study student can explain type of antropometri parameter

h. After following this study student can explain measurement method

B TOPIC

- 1 Reality of nutrition status scoring & relation between nutrition problem with host, agent, & environment
- 2 Growth, antropometri, & Measurement of Body Composition

C SUB TOPIC

- 1.1 Definition & Principal of Nutrition Status Scoring
- 1.2 Factors which influence Nutrition Status
- 1.3 Method of Nutrition Status Scoring
- 1.4 Nature history of nutrition problem
- 1.5 Agent of nutrition problem
- 1.6 Host of nutrition problem
- 1.7 Environment of nutrition problem
- 2.1 Basic concept of growth
- 2.2 Type of growth
- 2.3 Definition & antropometri principal
- 2.4 Type of antropometri measurement
- 2.5 Benefit & loss of PSG antropometricaly
- 2.6 Definition & antropometri principal & measurement of body composition
- 2.7 Type of antropometri parameter & measurement of body composition
- 2.8 Measurement Method of each parameter & measurement of body composition

D. LECTURING ACTIVITY

Phase	Lecturer activity	Student Activity	Media & Instrument
Antecedent	1 explain matery 1/2 2 explain general competention 1/2 3 generating enthusiasm	Giving attention	LCD White board
Presentation	4 explain matery 1.1/1.2 a asking about matery	Giving attention Giving oppinion	LCD White board
	b writing of student c answering d explain matery 5 explain matery 1.2/2.2 a asking about matery b writing of student c answering d explain matery 6 explain matery 1.3/2.3 a asking about matery		

b writing of student c answering d explain matery 7 explain matery 1.4/2.4 a asking about matery b writing of student c answering d explain matery 8 explain matery 1.5/2.5 a asking about matery b writing of student c answering d explain matery 9 explain matery 1.6/2.6 a asking about matery b writing of student c answering d explain matery 10 explain matery 1.7/2.7 a asking about matery b writing of student c answering d explain matery 11 explain matery 1.7/2.7 a asking about matery b writing of student c answering d explain matery

E EVALUATION

- 1.1 Explain influencing factors of nutrition status
- 1.2 Mention method of nutrition status
- 1.3 Mention agent, host, and environment of nutrition-problem
- 1.4 Mention type of growth
- 1.5 Explain definition of antropometri principal
- 1.6 Mention parameter of antropometri & measurement of body composition

F REFERENCE

- 1. AlmastierPrinsip Dasae Ilmu Gizi. Gramedia, Jakarta
- 2. Gibson RS. 1990. Principles of Nutritional Assesment. Oxford University New york

3. Gibson RS. 1990. Principles of Nutritional Assesment. Laboratory Oxford University New York 4. Howston, CP, kennedy. 1998. Prevention of Micronutrient Deficiencies. National AccademyPress. Washington