ACADEMIC CURRICULUM DEVELOPMENT

LECTURING PLAN
SOCIO-ECONOMICS STUDY PROGRAM

APPENDIX 3
LECTURING OUTLINE AND LECTURING AGENDA UNIT

FACULTY OF ANIMAL AGRICULTURE
DIPONEGORO UNIVERSITY
Semarang
2007

COURSE	: Farming Area Science
COURSE CODE	: PTP 228
CREDIT	: 2 (2-0)

TEACHING PROG RAM OUTLINE

Title of Subject : Farming Area Science

Number Code /CSS : PTP 228 / 2(2-0)

Brief Description : Farming Area Science is study about physical environment and climate especially tropical climate and the relation of livestock and ecosystem, thermal management and production, the effect of environment to livestock directly or indirectly, the adaptation to new environment and how to eliminate the bad effect from environment. To understand, student must master the basic knowledge about biology and physiology.

General Instructional Object : After following this lecture, student can explain about climate in general and tropical climate especially and its (the influence to livestock and how to eliminate of its (the negativity influence)

References :

1. Cole, D.J.A. and G.C. Brander. 1986. Bio-industrial Ecosystem. Elsevier, Amsterdam.
2. Curtis, E.S. 1981. Environmental Management in Animal Agriculture. Iowa State Univ. Press. Ames, Iowa.
3. Hafez, E.S.E. 1968. Adaptation of Domestic Animals. Lea & Febiger, Philadelphia.
4. McLRoy. `1980. Pengelolaan Padang Rumput. Pradnya Paramita, Jakarta.
5. Yousef, M.K. 1985. Stress Physiology in Livestock. CRC Press Inc. Boca Raton, Florida.

NO.	SPECIFIC INSTRUCTIONAL OBJECT	MAIN DISCUSSION	SUB DISCUSSION	TIME ESTIMATION	REFERENCES
1.	After following this lecture student has knowledge and able to explain truly about interrelationship between climates and livestock in ecosystem	ecosystem	Ecosystem the component of ecosystem	1 x 120 minutes	
2.	After following this lecture student can explain the definition and the relation of climate and living in ecosystem	Bio climate	Biotic and a biotic environment	1 x 120 minutes	
3.	After following this lecture student can explain the temperature and can decide the comfortable area for breeding	Temperature zone	Cold stress and low critical temperature Hot stress and high critical temperature	2 x 120 minutes	
4.	After following this lecture student can explain the thermal production and	Thermoregulation	Thermal production Thermal circulation	2 x 120 minutes	

	balances, thermoregulation by biological and physical		Thermal balances		
5.	After following this lecture student can explain nervous system, relation of nervous system and behavior, milk, meat, eggs production process.	The effect of environment to livestock	Behavior, nervous system and production Lactation and milk production Growth Fowl production	2 x 120 minutes	
6.	After following this lecture student can explain about adaptation and where livestock will be placed	Adaptation in environment	Adapt to environment Adapt to extreme environment Special adaptation	2 x 120 minutes	
7.	After following this lecture student can make a strategy to anticipate a stress(the excess of extreme temperature) through cage and feed and environment modification	Environment and feed manipulation	Environment manipulation Feed manipulation	2 x 120 minutes	

COURSE	:	Meat and Draught Animal Production
COURSE CODE	:	PTF 305 P
CREDIT	:	3 (2-1)

LECTURING PROGRAM OUTLINE

Subject	:	**Meat and Draught Animal Production**
Code / Semester Credit Unit	:	**PTF 305P/3 (2-1)**
Syllabus	:	This lecture discusses breeds, animal response of production and environment factors to develop meat animal production
General Instructional Objective	:	At the end of the lecturing program, students are expected to be able to understand breeds of meat and draught animal, physiology system, animal response to environment factor, animal housing, feeding, growth and development, matting system, and animal management

LECTURING PROGRAM

Meeting	Topic of Discussion	Sub-topic of Discussion	Duration (minutes)
1	Introduction	General description of subject lecture, explaining lecture contract, practical, and assignment	50
1-2	Breeds	Types and breeds of meat and draught animal	150
3	Balance of physiology system	Thermal balance, thermoregulation, heart rate, body temperature, comfort zone, and effect of environment to animal production	100
4	Animal response to climate	The effect of climate to animal production	100
5-6	Animal housing and equipment	Location of animal barn, function, lay out, type of construction, type of barn	200
7-8	Animal Growth and Development	Definition of growth and development, compensatory growth, growth of bone, meat and fat, factors affecting growth and development, and manipulation growth to production	200
9.	EVALUATION I		100
10.	Digestive system of meat animal	Digestive system and process of feed digestive on meat animal	100
11-12.	Feedstuff and animal response to feed	Kind of feed, factors affecting feed consumption, feed requirement, feeding management, and feed evaluation (feed conversion ratio, feed efficiency)	200
13.	Matting management of meat animal	Matting time, methods of matting, sex ratio, post partum matting	100
14-15.	Care of meat animal	Care of animal at parturition, care of animal (sheep, goat, cattle, buffalo, pig and horse) from birth to mature, handling, dehorning, recording, identification, shearing, hoof trimming, etc.	200
16.	EVALUATION II		100

LECTURING AGENDA UNITS

Subject	:	**Meat and Draught Animal Production**
Code / Semester Credit Unit	:	**PTF 305P/3 (2-1)**
Syllabus	:	This lecture discusses breeds, animal response of production and environment factors to develop meat animal production
General Instructional Objective	:	At the end of the lecturing program, students are expected to be able to understand breeds of meat and draught animal, physiology system, animal response to environment factor, animal housing, feeding, growth and development, matting system, and animal management

Topic	:	**Introduction**
Sub Topics	:	- Greetings and introducing the lecturers - General Explanation about the Subject Materials - Conditions
Meeting No.	:	1
Duration	:	50 minutes
General Instructional Objective	:	At the end of the lecturing program, students are expected to be able to understand and explain thoroughly the mechanism and interaction of factors affecting meat animal production.
Specific Instructional Objective	:	After joining the lecture, students understand the scope of the subject, conditions to fulfill, obligations to do and right to obtain.

Lecture Activities

Phase	Lecturer's Activities	Students' Activities	Lecturing Media and Facilities
Introduction	1. Introducing lecturers themselves	Paying attention	Whiteboard
Presentation	2. Distributing Lecture Contract 3. Explaining general description of the lecture, 4. Explaining lecture contract, 5. Explaining practical, and 6. Explaining assignments	Paying attention, making notes, delivering responses and questions	OHP
Conclusion	7. Explaining briefly the subject content of next meeting	Paying attention, making notes	-

Topic	:	**Breeds**
Sub Topics	:	Types and breeds of meat and draught animal
Meeting No.	:	1, 2
Duration	:	150 minutes
General Instructional Objective	:	At the end of the lecturing program, students are expected to be able to understand breeds of meat and draught animal, physiology system, animal response to environment factor, animal housing, feeding, growth and development, matting system, and animal management
Specific Instructional Objective	:	At the end of the lecture, students are able to understand and explain breeds of meat and draught animal (cattle, buffalo, goat, sheep, pig, and horse)

Class Activities

Phase	Lecturer's Activities	Students' Activities	Lecturing Media and Facilities
Introduction	1. Explaining the scope of the subject	Paying attention	Whiteboard
Presentation	2. Explaining breeds of meat and draught animal: - Cattle - Buffalo - Sheep - Goat - Pig - Horse 3. Delivering questions	Paying attention, making notes, delivering responses and questions Answering questions	OHP, transparent sheet, whiteboard
Conclusion	3. Concluding the meeting - Delivering summary - Giving assignment	- Paying attention and making notes.	-

Topic	:	**Balance of physiology system**
Sub Topics	:	Thermal balance, thermoregulation, heart rate, body temperature, comfort zone, and effect of environment to animal production
Meeting No.	:	3
Duration	:	100 minutes
General Instructional Objective	:	At the end of the lecturing program, students are expected to be able to understand breeds of meat and draught animal, physiology system, animal response to environment factor, animal housing, feeding, growth and development, matting system, and animal management
Specific Instructional Objective	:	At the end of the lecture, students are able to understand and explain thermal balance, thermoregulation, heart rate, body temperature, comfort zone, and effect of environment on production

Class Activities

Phase	Lecturer's Activities	Students' Activities	Lecturing Media and Facilities
Introduction	1. Explaining the scope of subject	Paying attention	Whiteboard,
Presentation	2. Explaining thermal balance, thermoregulation, heart rate, body temperature, comfort zone, and effect of environment to animal production 3. Delivering questions	Paying attention, making notes, delivering responses and questions Answering questions	Computer, projector, screen, whiteboard
Conclusion	4. Concluding the meeting - Summarizing materials - Giving assignment	- Paying attention, making notes,	Whiteboard

Topic	:	**Animal response to climate**
Sub Topics	:	The effect of climate to animal production
Meeting No.	:	4
Duration	:	100 minutes
General Instructional Objective	:	At the end of the lecturing program, students are expected to be able to understand breeds of meat and draught animal, physiology system, animal response to environment factor, animal housing, feeding, growth and development, matting system, and animal management
Specific Instructional Objective	:	At the end of the lecture, students are able to explain the effect of climate to animal production

Class Activities

Phase	Lecturer's Activities	Students' Activities	Lecturing Media and Facilities
Introduction	1. Explaining the scope of subject	Paying attention	Whiteboard,
Presentation	2. Explaining the effect of climate to animal production 3. Delivering questions	Paying attention, making notes, delivering responses and questions Answering questions	Computer, projector, screen, whiteboard
Conclusion	4. Concluding the meeting - Summarizing materials - Giving assignment	- Paying attention, making notes,	Whiteboard

Topic	:	**Animal housing and equipment**
Sub Topics	:	Location of animal barn, function, lay out, type of construction, type of barn
Meeting No.	:	5-6
Duration	:	200 minutes
General Instructional Objective	:	At the end of the lecturing program, students are expected to be able to understand breeds of meat and draught animal, physiology system, animal response to environment factor, animal housing, feeding, growth and development, matting system, and animal management
Specific Instructional Objective	:	At the end of the lecture, students are able to explain location of animal barn, function, lay out, type of construction, type of barn of meat animal

Class Activities

Phase	Lecturer's Activities	Students' Activities	Lecturing Media and Facilities
Introduction	1. Explaining the scope of subject	Paying attention	Whiteboard,
Presentation	2. Explaining Location of animal barn, function, lay out, type of construction, type of barn of animal production 3. Delivering questions	Paying attention, making notes, delivering responses and questions Answering questions	Computer, projector, screen, whiteboard
Conclusion	4. Concluding the meeting - Summarizing materials - Giving assignment	- Paying attention, making notes,	Whiteboard

Topic	:	**Animal growth and development**
Sub Topics	:	Definition of growth and development, compensatory growth, growth of bone, meat and fat, factors affecting growth and development, and manipulation growth to production
Meeting No.	:	7-8
Duration	:	200 minutes
General Instructional Objective	:	At the end of the lecturing program, students are expected to be able to understand breeds of meat and draught animal, physiology system, animal response to environment factor, animal housing, feeding, growth and development, matting system, and animal management
Specific Instructional Objective	:	At the end of the lecture, students are able to explain definition of growth and development, compensatory growth, growth of bone, meat and fat, factors affecting growth and development, and manipulation growth to production

Class Activities

Phase	Lecturer's Activities	Students' Activities	Lecturing Media and Facilities
Introduction	1. Explaining the scope of subject	Paying attention	Whiteboard,
Presentation	2. Explaining definition of growth and development, compensatory growth, growth of bone, meat and fat, factors affecting growth and development, and manipulation growth to production 3. Delivering questions	Paying attention, making notes, delivering responses and questions Answering questions	Computer, projector, screen whiteboard
Conclusion	4. Concluding the meeting - Summarizing materials - Giving assignment	- Paying attention, making notes,	Whiteboard

Topic	:	**Digestive system of meat animal**
Sub Topics	:	Digestive system and process of feed digestive on meat animal
Meeting No.	:	10
Duration	:	100 minutes
General Instructional Objective	:	At the end of the lecturing program, students are expected to be able to understand breeds of meat and draught animal, physiology system, animal response to environment factor, animal housing, feeding, growth and development, matting system, and animal management
Specific Instructional Objective	:	At the end of the lecture, students are able to understand and explain digestive system and process of feed digestive on meat animal

Class Activities

Phase	Lecturer's Activities	Students' Activities	Lecturing Media and Facilities
Introduction	1. Explaining the scope of subject	Paying attention	Whiteboard,
Presentation	2. Explaining digestive system and process of feed digestive on meat animal 3. Delivering questions	Paying attention, making notes, delivering responses and questions Answering questions	Computer, projector, screen, whiteboard
Conclusion	4. Concluding the meeting - Summarizing materials - Giving assignment	- Paying attention, making notes,	Whiteboard

Topic	:	**Feedstuff and animal response to feed**
Sub Topics	:	Kind of feed, factors affecting feed consumption, feed requirement, feeding management, and feed evaluation (feed conversion ratio, feed efficiency)
Meeting No.	:	11-12
Duration	:	200 minutes
General Instructional Objective	:	At the end of the lecturing program, students are expected to be able to understand breeds of meat and draught animal, physiology system, animal response to environment factor, animal housing, feeding, growth and development, matting system, and animal management
Specific Instructional Objective	:	At the end of the lecture, students are able to understand and explain kind of feed, factors affecting feed consumption, feed requirement, feeding management, and feed evaluation (feed conversion ratio, feed efficiency)

Class Activities

Phase	Lecturer's Activities	Students' Activities	Lecturing Media and Facilities
Introduction	1. Explaining the scope of subject	Paying attention	Whiteboard,
Presentation	2. Explaining kind of feed, factors affecting feed consumption, feed requirement, feeding management, and feed evaluation (feed conversion ratio, feed efficiency) 3. Delivering questions	Paying attention, making notes, delivering responses and questions Answering questions	Computer, projector, screen, whiteboard
Conclusion	4. Concluding the meeting - Summarizing materials - Giving assignment	- Paying attention, making notes,	Whiteboard

Topic	:	**Matting management of meat animal**
Sub Topics	:	Matting time, methods of matting, sex ratio, post partum matting
Meeting No.	:	13
Duration	:	100 minutes
General Instructional Objective	:	At the end of the lecturing program, students are expected to be able to understand breeds of meat and draught animal, physiology system, animal response to environment factor, animal housing, feeding, growth and development, matting system, and animal management
Specific Instructional Objective	:	At the end of the lecture, students are able to understand and explain matting time, methods of matting, sex ratio, post partum matting

Class Activities

Phase	Lecturer's Activities	Students' Activities	Lecturing Media and Facilities
Introduction	1. Explaining the scope of subject	Paying attention	Whiteboard,
Presentation	2. Explaining matting time, methods of matting, sex ratio, post partum matting 3. Delivering questions	Paying attention, making notes, delivering responses and questions Answering questions	Computer, projector, screen, whiteboard
Conclusion	4. Concluding the meeting - Summarizing materials - Giving assignment	- Paying attention, making notes,	Whiteboard

Topic	:	**Care of meat animal**
Sub Topics	:	Care of animal at parturition, care of animal (sheep, goat, cattle, buffalo, pig and horse) from birth to mature, handling, dehorning, recording, identification, shearing, hoof trimming, etc.
Meeting No.	:	14-15
Duration	:	200 minutes
General Instructional Objective	:	At the end of the lecturing program, students are expected to be able to understand breeds of meat and draught animal, physiology system, animal response to environment factor, animal housing, feeding, growth and development, matting system, and animal management
Specific Instructional Objective	:	At the end of the lecture, students are able to understand and explain care of animal at parturition, care of animal (sheep, goat, cattle, buffalo, pig and horse) from birth to mature, handling, dehorning, recording, identification, shearing, hoof trimming, etc.

Class Activities

Phase	Lecturer's Activities	Students' Activities	Lecturing Media and Facilities
Introduction	1. Explaining the scope of subject	Paying attention	Whiteboard,
Presentation	2. Explaining care of animal at parturition, care of animal (sheep, goat, cattle, buffalo, pig and horse) from birth to mature, handling, dehorning, recording, identification, shearing, hoof trimming, etc. 3. Delivering questions	Paying attention, making notes, delivering responses and questions Answering questions	Computer, projector, screen, whiteboard
Conclusion	4. Concluding the meeting - Summarizing materials - Giving assignment	- Paying attention, making notes,	Whiteboard

Evaluation:

Evaluations are taken 3 times, i.e.

1. on the 9th meeting; evaluating the students' understanding on the subjects delivered from the 1st to the 8th meetings
2. on the 16th meeting; evaluating the students' understanding on the subjects delivered from the 10th to the 15th meetings.
3. on the semester examination; evaluating the students' overall understanding on the subjects of lecture.

References

1. Battaglia, R.A., dan V.B. Mayrose. 1981. Handbook of Livestock Management Techniques. Prentice Hall., Inc. New Jersey.
2. Edey, T.N. 1983. Tropical Sheep and Goat Production. Australian Vice-Chancellor' Committee-AUIDP, Canberra.
3. Goodwin, D.H., 1977. Beef Management and Production. A practical guide for farmers and students. 1st Ed. Hutchinson & Co. Ltd, London
4. Haresign, W. 1983. Sheep Production. Butterworths, London
5. Pond, W.G., D.C. Church, dan K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley and Sons, New York.
6. Pond, W.G. dan J.H. Maner. 1974. Swine Production in Temperate and Tropical Environments. W.H. Freeman and Company, San Francisco.
7. Preston, T.R., dan M.B. Willis. 1979. Intensif Beef Production. 2nd. Pergamon Press, Oxford.
8. Ross, C.V. 1989. Sheep Production and Management. Prentice Hall, Englewood Cliffs.
9. MacDonald, I. and J. Low. 1994. Livestock Rearing in The Tropics. The Macmillan Press LTD, London

COURSE	:	Basic of Biochemistry
COURSE CODE	:	PTF 202 P
CREDIT	:	(2-1)3

TEACHING PROGRAM OUTLINE

Title of Subject	:	Basic of Biochemistry
Number Code /CSS	:	PTF 202 P / 3(2-1)
Brief Description	:	This subject study about bio organic metabolism, for example carbohydrate, protein, lipid, nucleate acid, and cholesterol. Also present about enzyme and the function in the life cell and the anticipation of its. Photosynthesis in the life cell also presented.
General Instructional Object	:	After following this lecture student can explain the carbohydrate metabolism, protein, lipid, nucleate acid, and cholesterol, enzyme and photosynthesis process in life cell correctly. Student will able to do carbohydrate, protein and lipid digestion.
References	:	1. Girindra, A. 1986. Biokimia. PT Gramedia, Jakarta. 2. Fennemma, 0.R. 1986. Principles of Food Science. Marcel Dekker, Inc. New York. 3. Eskin, N.A.M., H.M. Henderson dan R.J. Townsend. 1971. Biochemistry of Foods. Academic Press, New York. 4. Mayes, P.A., D.K. Granner., V.W. Rodwel., dan D.W. Martin. 1987. Biokimia "Harper". EGC, Jakarta (diterjemahkan oleh I. Darmawan. 5. Winarno, F. G. 1983. Enzim Pangan. PT Gramedia, Jakarta. 6. Whitaker, J. R. 1972. Principle og Enzymologi for the Food Science. Marcel Dekker, Inc., New York. 7. Daulay, D. 1991. Fermentasi Keju. PAU Pangan dan Gizi. IPB, Bogor. 8. Lehninger, M. 1992. Dasar-dasar Biokimia. PT Gramedia, Jakarta (diterjemahkan oleh M. Thenawaijaya). 9. Thenawijaya, M. 1989. Dasar-dasat Biokimia. PAU Ilmu Hayati, IPB, Bogor. 10. Winarno, F.G. 1983. Enzim Pangan. PT Gramedia, Jakarta

NO.	SPECIFIC INSTRUCTIONAL OBJECT	MAIN DISCUSSION	SUB DISCUSSION	TIME ESTIMATION	REFERENCES
1.	After attending the lecture, student can explain about the structure of monosaccharide, disaccharide, oligosaccharides, polysaccharides and able to explain the classification and nomenclature of carbohydrate.	carbohydrate	Structure of carbohydrate Classification of carbohydrate	2x50 minutes	1,2
2.	After attending the lecture, student can explain about the digestion of carbohydrate by saliva amylase,	Carbohydrate	Digestion of carbohydrate	2x50 minutes	3,4

	pancreas amylase and intestine enzyme correctly.				
3.	After attending the lecture, student can explain the metabolism (catabolism and anabolism) correctly.	Carbohydrate	Metabolism (catabolism and anabolism)	2x50 minutes	3,4
4.	After attending the lecture, student can explain the structure (units of enzyme) and classification (nomenclature and the kinds of enzyme)	Enzyme	Structure and classification of enzyme	2x50 minutes	3,5,6,7
5.	After attending the lecture, student can count the enzyme activity and the utilization	Enzyme	Enzyme activity	2x50 minutes	3,5,6,7
6.	After attending the lecture, student can explain the relation of enzyme activity and the factor that influence its, and enzyme specification as a bio catalyst	Enzyme	Factors that influence enzyme activity Enzyme specification	2x50 minutes	3,5,6,7
7.	After attending the lecture, student can explain the application of enzyme in food industry, feed, chemical and medicine	Enzyme	Factors that influence enzyme activity Enzyme specification	2x50 minutes	3,5,6,7
8.	After attending the lecture, student can explain the kinds of amino acids, and the classification base on character and the degree of complexity	Protein	Structure of protein and classification of protein	2x50 minutes	4,8,9
9.	After attending the lecture, student can explain about the digestion of protein correctly	Protein	Digestion of protein	2x50 minutes	4,8,9
10.	After attending the lecture, student can explain about the protein metabolism	Protein	Protein metabolism	2x50 minutes	4,8,9
11.	After attending the lecture, student can explain about the nucleate acid	nucleate acid	The kinds of nucleate acid Structure of nucleate acid Function of nucleate acid	2x50 minutes	4,8,9
12.	After attending the lecture, student can explain about the lipid	Lipid	Structure of lipid Classification of lipid	2x50 minutes	4,8,9

13.	After attending the lecture, student can explain about the digestion and metabolism of lipid	Lipid	Digestion of lipid Metabolism of lipid	2x50 minutes	4,8,9
14.	After attending the lecture, student can explain about the cholesterol (structure, function, mechanism of formation)	Lipid	Structure and kinds of cholesterol Function of cholesterol Mechanism of formation	2x50 minutes	4,8,9
15.	After attending the lecture, student can explain about the photosynthesis (light and dark reaction)	photosynthesis	light and dark reaction	2x50 minutes	9

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT : Basic of Biochemistry
TEACHING SUBJECT CODE / SCS : PTF 202 P / 3 (2-1) SCS
MEETING TIME : 2 x 50 minutes
MEETING : 1

A. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain about basic structure and classification of carbohydrate correctly.
2. Specific Instructional Object : After attending the lecture, student can explain about the structure of monosaccharide, disaccharide, oligosaccharides, polysaccharides and able to explain the classification and nomenclature of carbohydrate.

B. MAIN SUBJECT : carbohydrate

C. SUB SUBJECT : Structure of carbohydrate
Classification of carbohydrate

D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the definition and characters of carbohydrate	Pay attention Write Ask	
Topic presentation	Explains about the basic structure of carbohydrate (monosaccharide, disaccharide, oligosaccharides, polysaccharides), nomenclature, classification, and explain the kinds of simple and complex of carbohydrate	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Make a conclusion and gives image of the next lecture	pays attention	

E. EVALUATION :

F. REFERENCES

1. Girindra , A. 1986. Biokimia. PT Gramedia, Jakarta
2. Fennemma, 0.R. 1986. Principles of Food Science. Marcel Dekker, Inc, New York.

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT : Basic of Biochemistry
TEACHING SUBJECT CODE / SCS : PTF 202 P / 3 (2-1) SCS
MEETING TIME : 2 x 50 minutes
MEETING : 2

B. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain about the digestion of carbohydrate correctly

2. Specific Instructional Object : After attending the lecture, student can explain about the digestion of carbohydrate by saliva amylase, pancreas amylase and intestine enzyme correctly.

B. MAIN SUBJECT : Carbohydrate
C. SUB SUBJECT : Digestion of carbohydrate
D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the definition of digestion and carbohydrate digestion	Pay attention Write Ask	
Topic presentation	Explains about the mechanism of digestion of complex carbohydrate in the digestives tracts by enzyme, the intermediate and main product of carbohydrate digestion and the mechanism and absorption of its in intestines. Compare the simple and complex carbohydrate digestion.	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Make a conclusion and gives image of the next lecture	pays attention	

E. EVALUATION :

F. REFERENCES

1. Eskin, N.A.M., H.M. Henderson dan R.J. Townsend. 1971. Biochemistry of Foods. Academic Press, New York.
2. Mayes, P. A. , D. K. Graner, V. W. Rodwel, dan D. W. Martin. 1987. Biokimia Harper. EGC, Jakarta (diterjemahkan oleh I. Darmawan)

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT : Basic of Biochemistry
TEACHING SUBJECT CODE / SCS : PTF 202 P / 3 (2-1) SCS
MEETING TIME : 2 x 50 minutes
MEETING : 3

C. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain the metabolism of carbohydrate correctly

2. Specific Instructional Object : After attending the lecture, student can explain the metabolism (catabolism and anabolism) correctly.

B. MAIN SUBJECT : Carbohydrate
C. SUB SUBJECT : Metabolism (catabolism and anabolism)

D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the definition of metabolism	Pay attention Write Ask	
Topic presentation	Explains about the catabolism of carbohydrate (glycolisis, glycogenolisis, Krebs cyclic) and anabolism (glycogenesis, glycogeneogenesis) in life cells. Explain about differences of aerobe and anaerobe glycolisis, ATP/energy formation and give the example of utilization of its for food and feed treatment.	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Make a conclusion and gives image of the next lecture	pays attention	

E. EVALUATION :

F. REFERENCES

1. Eskin, N.A.M., H.M. Henderson dan R.J. Townsend. 1971. Biochemistry of Foods. Academic Press, New York.
2. Mayes, P. A. , D. K. Graner, V. W. Rodwel, dan D. W. Martin. 1987. Biokimia Harper. EGC, Jakarta (diterjemahkan oleh I. Darmawan)

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT	:	Basic of Biochemistry
TEACHING SUBJECT CODE / SCS	:	PTF 202 P / 3 (2-1) SCS
MEETING TIME	:	2 x 50 minutes
MEETING	:	4

D. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain the structure and classification of enzyme correctly

2. Specific Instructional Object : After attending the lecture, student can explain the structure (units of enzyme) and classification (nomenclature and the kinds of enzyme)

B. MAIN SUBJECT : Enzyme

C. SUB SUBJECT : Structure and classification of enzyme

D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the definition of enzyme and the role of enzyme in metabolism	Pay attention Write Ask	
Topic presentation	Explain the structure (units of enzyme), classification (nomenclature and the kinds of enzyme), characteristic, and give the example of utilization	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Make a conclusion and gives image of the next lecture	pays attention	

E. EVALUATION :

F. REFERENCES

1. Eskin, N.A.M., H.M. Henderson dan R.J. Townsend. 1971. Biochemistry of Foods. Academic Press, New York.
2. Winarno, F. G. 1983. Enzim Pangan. PT Gramedia, Jakarta.
3. Whitaker, J. R. 1972. Principle og Enzymologi for the Food Science. Marcel Dekker, Inc., New York.
4. Daulay, D. 1991. Fermentasi Keju. PAU Pangan dan Gizi. IPB, Bogor.

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT	:	Basic of Biochemistry
TEACHING SUBJECT CODE / SCS	:	PTF 202 P / 3 (2-1) SCS
MEETING TIME	:	2 x 50 minutes
MEETING	:	5

E. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain the enzyme activity correctly

2. Specific Instructional Object : After attending the lecture, student can count the enzyme activity and the utilization

B. MAIN SUBJECT : Enzyme

C. SUB SUBJECT : Enzyme activity

D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the definition of enzyme activity	Pay attention Write Ask	
Topic presentation	Explain the method of counting enzyme activity, cinematic curve, give the example and the utilization	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Make a conclusion and gives image of the next lecture	pays attention	

E. EVALUATION : Give the task to count the rennet enzyme activity

F. REFERENCES

1. Eskin, N.A.M., H.M. Henderson dan R.J. Townsend. 1971. Biochemistry of Foods. Academic Press, New York.
2. Winarno, F. G. 1983. Enzim Pangan. PT Gramedia, Jakarta.
4. Whitaker, J. R. 1972. Principle og Enzymologi for the Food Science. Marcel Dekker, Inc., New York.
4. Daulay, D. 1991. Fermentasi Keju. PAU Pangan dan Gizi. IPB, Bogor.

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT : Basic of Biochemistry
TEACHING SUBJECT CODE / SCS : PTF 202 P / 3 (2-1) SCS
MEETING TIME : 2 x 50 minutes
MEETING : 6

F. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain about the factor that influence the enzyme activity and enzyme specification
2. Specific Instructional Object : After attending the lecture, student can explain the relation of enzyme activity and the factor that influence its, and enzyme specification as a bio catalyst

B. MAIN SUBJECT : Enzyme
C. SUB SUBJECT : Factors that influence enzyme activity
Enzyme spesification

D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the relation of enzyme and the factor that influence of its.	Pay attention Write Ask	
Topic presentation	Explain about factor that increase enzyme activity (substrate concentration, enzyme concentration, optimal temperature, activity curve) , and explain the factors that inhibit the enzyme activity (temperature changing, denaturizing of protein or enzyme, asynchronies between enzyme and substrate and other factor) Explain the mechanism of enzyme-substrate work and the product.	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Explain the advantages of studying enzyme activity and gives image of the next lecture	pays attention	

E. EVALUATION : Give the task to count the rennet enzyme activity

F. REFERENCES

1. Eskin, N.A.M., H.M. Henderson dan R.J. Townsend. 1971. Biochemistry of Foods. Academic Press, New York.
2. Winarno, F. G. 1983. Enzim Pangan. PT Gramedia, Jakarta.
5. Whitaker, J. R. 1972. Principle og Enzymologi for the Food Science. Marcel Dekker, Inc., New York.
4. Daulay, D. 1991. Fermentasi Keju. PAU Pangan dan Gizi. IPB, Bogor.

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT	:	Basic of Biochemistry
TEACHING SUBJECT CODE / SCS	:	PTF 202 P / 3 (2-1) SCS
MEETING TIME	:	2 x 50 minutes
MEETING	:	7

G. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain about the application of enzyme for industry

2. Specific Instructional Object : After attending the lecture, student can explain the application of enzyme in food industry, feed, chemical and medicine

B. MAIN SUBJECT : Enzyme

C. SUB SUBJECT : Factors that influence enzyme activity
Enzyme spesification

D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the relation of enzyme and the factor that influence of its.	Pay attention Write Ask	
Topic presentation	Explain about factor that increase enzyme activity (substrate concentration, enzyme concentration, optimal temperature, activity curve) , and explain the factors that inhibit the enzyme activity (temperature changing, denaturizing of protein or enzyme, asynchronies between enzyme and substrate and other factor) Explain the mechanism of enzyme-substrate work and the product.	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Explain the advantages of studying enzyme activity and gives image of the next lecture	pays attention	

E. EVALUATION : Give the task to count the rennet enzyme activity

F. REFERENCES

1. Eskin, N.A.M., H.M. Henderson dan R.J. Townsend. 1971. Biochemistry of Foods. Academic Press, New York.
2. Winarno, F. G. 1983. Enzim Pangan. PT Gramedia, Jakarta.
6. Whitaker, J. R. 1972. Principle og Enzymologi for the Food Science. Marcel Dekker, Inc., New York.
4. Daulay, D. 1991. Fermentasi Keju. PAU Pangan dan Gizi. IPB, Bogor.

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT	:	Basic of Biochemistry
TEACHING SUBJECT CODE / SCS	:	PTF 202 P / 3 (2-1) SCS
MEETING TIME	:	1 x 50 minutes
MEETING	:	8

H. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain about the application of enzyme for industry

2. Specific Instructional Object : Mid-Examination

B. MAIN SUBJECT : Presentation 1st until 7th

C. SUB SUBJECT :

D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction			
Topic presentation			
Conclusions			

E. EVALUATION :

F. REFERENCES

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT : Basic of Biochemistry
TEACHING SUBJECT CODE / SCS : PTF 202 P / 3 (2-1) SCS
MEETING TIME : 2 x 50 minutes
MEETING : 9

I. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain about protein

2. Specific Instructional Object : After attending the lecture, student can explain the kinds of amino acids, and the classification base on character and the degree of complexity.

B. MAIN SUBJECT : Protein
C. SUB SUBJECT : Structure of protein and classification of protein
D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the definition of protein	Pay attention Write Ask	
Topic presentation	Explain the kinds of amino acids, and the classification base on character and the degree of complexity.	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Explain the the relation of amino acid and protein	pays attention	

E. EVALUATION : Give the task to count the rennet enzyme activity

F. REFERENCES

1. Mayes, P. A., D.K. Granner, V.W. Rodwel, dan D.A. Martin. 1987. Biokimia "Harper". EGC Jakarta (diterjamahkan oleh I. Darmawan)
2. Thenawijaya, M. 1989. Dasar-dasar Biokimia. PAU Ilmu Hayati. IPB, Bogor
3. Lehninger, M. 1992. Dasar-dasar Biokimia. PT Gramedia, Jakarta (diterjemahkan oleh M. Thenawaijaya).

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT	:	Basic of Biochemistry
TEACHING SUBJECT CODE / SCS	:	PTF 202 P / 3 (2-1) SCS
MEETING TIME	:	2 x 50 minutes
MEETING	:	10

J. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain about protein

2. Specific Instructional Object : After attending the lecture, student can explain about the digestion of protein correctly

B. MAIN SUBJECT : Protein

C. SUB SUBJECT : Digestion of protein

D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the basic principle digestion of protein and the product	Pay attention Write Ask	
Topic presentation	Explain about the mechanism of protein digestion in digestive tract	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Explain the the relation of amino acid and protein	pays attention	

E. EVALUATION : Give the task to count the rennet enzyme activity

F. REFERENCES

1. Mayes, P. A., D.K. Granner, V.W. Rodwel, dan D.A. Martin. 1987. Biokimia "Harper". EGC Jakarta (diterjamahkan oleh I. Darmawan)
2. Thenawijaya, M. 1989. Dasar-dasar Biokimia. PAU Ilmu Hayati. IPB, Bogor
3. Lehninger, M. 1992. Dasar-dasar Biokimia. PT Gramedia, Jakarta (diterjemahkan oleh M. Thenawaijaya).

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT : Basic of Biochemistry
TEACHING SUBJECT CODE / SCS : PTF 202 P / 3 (2-1) SCS
MEETING TIME : 2 x 50 minutes
MEETING : 11

K. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain about protein

2. Specific Instructional Object : After attending the lecture, student can explain about the protein metabolism

B. MAIN SUBJECT : Protein
C. SUB SUBJECT : Protein metabolism
D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the basic principle digestion of protein and the product	Pay attention Write Ask	
Topic presentation	Explain about the protein metabolism	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Explain the advantages study protein metabolism	pays attention	

E. EVALUATION : Give the task to count the rennet enzyme activity

F. REFERENCES

1. Mayes, P. A., D.K. Granner, V.W. Rodwel, dan D.A. Martin. 1987. Biokimia "Harper". EGC Jakarta (diterjamahkan oleh I. Darmawan)
2. Thenawijaya, M. 1989. Dasar-dasar Biokimia. PAU Ilmu Hayati. IPB, Bogor
3. Lehninger, M. 1992. Dasar-dasar Biokimia. PT Gramedia, Jakarta (diterjemahkan oleh M. Thenawaijaya).

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT	:	Basic of Biochemistry
TEACHING SUBJECT CODE / SCS	:	PTF 202 P / 3 (2-1) SCS
MEETING TIME	:	2 x 50 minutes
MEETING	:	12

L. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain about the application of enzyme for industry

2. Specific Instructional Object : After attending the lecture, student can explain about the nucleate acid

B. MAIN SUBJECT : nucleate acid

C. SUB SUBJECT : The kinds of nucleate acid
Structure of nucleate acid
Function of nucleate acid

D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the definition of nucleate acid and position in body	Pay attention Write Ask	
Topic presentation	Explain about : The kinds of nucleate acid Structure of nucleate acid Function of nucleate acid	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Resume the lecture	pays attention	

E. EVALUATION : Give the task to count the rennet enzyme activity

F. REFERENCES

1. Mayes, P. A., D.K. Granner, V.W. Rodwel, dan D.A. Martin. 1987. Biokimia "Harper". EGC Jakarta (diterjamahkan oleh I. Darmawan)
2. Thenawijaya, M. 1989. Dasar-dasar Biokimia. PAU Ilmu Hayati. IPB, Bogor
3. Lehninger, M. 1992. Dasar-dasar Biokimia. PT Gramedia, Jakarta (diterjemahkan oleh M. Thenawaijaya).

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT	:	Basic of Biochemistry
TEACHING SUBJECT CODE / SCS	:	PTF 202 P / 3 (2-1) SCS
MEETING TIME	:	2 x 50 minutes
MEETING	:	13

M. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain about the application of enzyme for industry

2. Specific Instructional Object : After attending the lecture, student can explain about the lipid

B. MAIN SUBJECT : Lipid

C. SUB SUBJECT : Structure of lipid
Classification of lipid

D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the definition of lipid	Pay attention Write Ask	
Topic presentation	Explain about : Structure of lipid Classification of lipid	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Resume the lecture	pays attention	

E. EVALUATION : Give the task to count the rennet enzyme activity

F. REFERENCES

1. Mayes, P. A., D.K. Granner, V.W. Rodwel, dan D.A. Martin. 1987. Biokimia "Harper". EGC Jakarta (diterjamahkan oleh I. Darmawan)
2. Thenawijaya, M. 1989. Dasar-dasar Biokimia. PAU Ilmu Hayati. IPB, Bogor
3. Lehninger, M. 1992. Dasar-dasar Biokimia. PT Gramedia, Jakarta (diterjemahkan oleh M. Thenawaijaya).

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT	:	Basic of Biochemistry
TEACHING SUBJECT CODE / SCS	:	PTF 202 P / 3 (2-1) SCS
MEETING TIME	:	2 x 50 minutes
MEETING	:	14

N. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain about the lipid

2. Specific Instructional Object : After attending the lecture, student can explain about the digestion and metabolism of lipid

B. MAIN SUBJECT : Lipid

C. SUB SUBJECT : Digestion of lipid
Metabolism of lipid

D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the digestion of lipid and metabolism	Pay attention Write Ask	
Topic presentation	Explain about : Digestion of lipid Metabolism of lipid	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Resume the lecture	pays attention	

E. EVALUATION : Give the task to count the rennet enzyme activity

F. REFERENCES

1. Mayes, P. A., D.K. Granner, V.W. Rodwel, dan D.A. Martin. 1987. Biokimia "Harper". EGC Jakarta (diterjamahkan oleh I. Darmawan)
2. Thenawijaya, M. 1989. Dasar-dasar Biokimia. PAU Ilmu Hayati. IPB, Bogor
3. Lehninger, M. 1992. Dasar-dasar Biokimia. PT Gramedia, Jakarta (diterjemahkan oleh M. Thenawaijaya).

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT	:	Basic of Biochemistry
TEACHING SUBJECT CODE / SCS	:	PTF 202 P / 3 (2-1) SCS
MEETING TIME	:	2 x 50 minutes
MEETING	:	15

O. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain about the cholesterol

2. Specific Instructional Object : After attending the lecture, student can explain about the cholesterol (structure, function, mechanism of formation)

B. MAIN SUBJECT : Lipid

C. SUB SUBJECT : Structure and kinds of cholesterol
Function of cholesterol
Mechanism of formation

D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the digestion of cholesterol	Pay attention Write Ask	
Topic presentation	Explain about Structure and kinds of cholesterol Function of cholesterol Mechanism of formation	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Resume the lecture	pays attention	

E. EVALUATION : Give the task to count the rennet enzyme activity

F. REFERENCES

1. Mayes, P. A., D.K. Granner, V.W. Rodwel, dan D.A. Martin. 1987. Biokimia "Harper". EGC Jakarta (diterjamahkan oleh I. Darmawan)
2. Thenawijaya, M. 1989. Dasar-dasar Biokimia. PAU Ilmu Hayati. IPB, Bogor
3. Lehninger, M. 1992. Dasar-dasar Biokimia. PT Gramedia, Jakarta (diterjemahkan oleh M. Thenawaijaya).

SET OF TEACHING SCHEDULE

A. OBJECT OF TEACHING SUBJECT

TEACHING SUBJECT	:	Basic of Biochemistry
TEACHING SUBJECT CODE / SCS	:	PTF 202 P / 3 (2-1) SCS
MEETING TIME	:	2 x 50 minutes
MEETING	:	16

P. OBJECT

1. General Instructional Object : After following this lecture, student will be able to explain about the photosynthesis

2. Specific Instructional Object : After attending the lecture, student can explain about the photosynthesis (light and dark reaction)

B. MAIN SUBJECT : photosynthesis

C. SUB SUBJECT : light and dark reaction

D. CLASS ACTIVITY:

PHASE	TEACHING ACTIVITY	STUDENTS ACTIVITY	TOOLS
Introduction	Explain about the digestion of light and dark reaction	Pay attention Write Ask	
Topic presentation	Explain about light and dark reaction and give the example	Pay attention Write Ask Answer the quetions	OHP Transparency Hand out White board Exercise paper
Conclusions	Resume the lecture	pays attention	

E. EVALUATION : Give the task to count the rennet enzyme activity

F. REFERENCES

Thenawijaya, M. 1989. Dasar-dasar Biokimia. PAU Ilmu Hayati. IPB, Bogor.

COURSE	: Animal Product Knowlwdge
COURSE CODE	:
CREDIT	:

SET OF TEACHING INSTRUCTION

Name of Course : **Animal Product Knowledge**
Course Code :
SKS : 3 sks
Meeting Time : 100 minute
Meeting Number : 1

A. Target

1. Course Main Goal: After following this course student able to explain and analyses about basic animal product knowledge i.e. physical, chemical, and physicochemical and also do the quality measurement animal product and animal by product.

2. Course Specific Goal : Able to explain relationship between this course and others of eye and also its application in animal product processing.

B. Main Subject: Introduction

C. Sub Subject: - Relation with the other course
- Application of this course.
- Course role

D. Teaching activity :

Teaching Step	Teacher Activity	Student Activity	Teaching Media
Introductions	Introduction, Course Information	Note down, Listening, Discusion	OHP Blackboard
Presentation	Explaining relationship this course with others	Note down, Listening, Discusion	OHP Blackboard
Conclusion	Giving substance for the next meeting	Discusion	Blackboard

E. Evaluation : Quiz

F. References :

1. Hadiwiyoto.S. 1983. Hasil hasil Olahan Susu, Ikan, Daging dan Telur. Liberti. Yogyakarta
2. Stadelman dan Cotterill. 1994. Egg science and Technology

SET OF TEACHING INSTRUCTION

Name of Course : **Animal Product Knowledge**
Course Code :
SKS : 3 sks
Meeting Time : 100 minute
Meeting Number : II

A. Target

1. Course Main Goal: After following this course student able to explain and analyses about basic animal product knowledge i.e. physical, chemical, and physicochemical and also do the quality measurement animal product and animal by product.

2. Course Specific Goal : Able to explain relationship between this course and others of eye and also its application in animal product processing.

B. Main Subject: Introduction

C. Sub Subject: - Eggs physical properties
- Eggs chemical properties
- Eggs microbial properties

D. Teaching activity:

Teaching Step	Teacher Activity	Student Activity	Teaching Media
Introductions	Explaining about hatching eggs and consuming eggs.	Note down, Listening, Discusion	OHP Black board
Presentation	Explaining physical eggs properties Explaining chemical eggs properties Explaining microbiology eggs properties	Note down, Listening, Discusion	OHP Black board
Conclusion	Commenting and concluding result of discussion. Giving substance for the next meeting	Discusion	Black board

E. Evaluation : Quiz

F. References :

1. Hadiwiyoto.S. 1983. Hasil hasil Olahan Susu, Ikan, Daging dan Telur. Liberti. Yogyakarta
2. Stadelman dan Cotterill. 1994. Egg science and Technology
3. National and international journal

SET OF TEACHING INSTRUCTION

Name of Course : **Animal Product Knowledge**
Course Code :
SKS : 3 sks
Meeting Time : 100 minute
Meeting Number : III

A. Target

1. Course Main Goal: After following this course student able to explain and analyses about basic animal product knowledge i.e. physical, chemical, and physicochemical and also do the quality measurement animal product and animal by product.

2. Course Specific Goal : Able to explain relationship between this course and others of eye and also its application in animal product processing.

B. Main Subject: Introduction Eggs Technology
C. Sub Subject: Quality standard, Test Quality
D. Teaching activity:

Teaching Step	Teacher Activity	Student Activity	Teaching Media
Introductions	Explaining quality standard	Note down, Listening, Discusion	OHP Black board
Presentation	Explaining eggs quality measurement method	Note down, Listening, Discusion	OHP Black board
Conclusion	Commenting and concluding result of discussion. Giving substance for the next meeting	Discusion	Black board

E. Evaluation ; Quiz
F. References:

1. Hadiwiyoto.S. 1983. Hasil hasil Olahan Susu, Ikan, Daging dan Telur. Liberti. Yogyakarta
2. Stadelman dan Cotterill. 1994. Egg science and Technology
3. National and international Journal.

COURSE	: Processing of Animal Product
COURSE CODE	:
CREDIT	: 2 (1-1)

SESSION UNITY OF LEARNING

Subjec t : Processing of Animal Product

code of subject : -

SKS : 2 (1-1)

Time of session : 100 minutes

Session : I

A. object

1. TIU : By following this session, students can know principles of subject, related to others subject, contract of lecturer and students, method of study and evaluation.
2. TIK :
   a. Students can say principles of subject.
   b. Students can make structure of relation inter subject related to this subject.
   c. Students can know description of lecture contract until one semester.
   d. Students can say tution method and evaluation of this subject.

B. Principal of subject : Introduction

C. Sub subject :

- Description of subject
- Relation inter subject
- Lecture contract
- Tution method and evaluation

D. Education activity :

Stage	Lecturer activity	Students activity	Tool and media of education
introduction	to expalin all of matter will give at this session. To Introduce the lecturer of this subject.	To attent and write To attent and write	OHP and white board OHP and white board
Naration	To explain background of this subject why give at this study programme To explain description of this subject	To attent and write	OHP and white board

	subject To Give actual examples To make structure of relation inter subject To expalin lecture contract of this subject To expalin of method education To make small group discussion (5-7 students/group)	To do making permanent group based on lecturer instruction.	
Inclosed	To ask anything that need clarification or explaination to much more detail. To ask many things for actual examples to 2-3 students To Give review about sub subject were discussed at this session	To ask To answer To attent and write	

E. Evaluation :

This session was tended to students can know all of the matters that will be given at this subject for one semester full.

SESSION UNITY OF LEARNING

Subjec t : Processing of Animal Product

code of subject : -

SKS : 2 (1-1)

Time of session : 100 minutes

Session : II

A. Object

1. TIU : After following this session, students can explain principles of meat prosessing, meat preservation and varyety of meat product.
2. TIK :
   a. Students can say variety meat products
   b. Students can explain object and principles of meat processing.

B. Principal of Subject : Technology of meat Processing

C. **Sub Subject** :

- Principle and object
- Variety of meat products

D. Learning activity :

stage	Lecturer activity	Student activity	Media and tool of learning
Introduction	To Explain all of matters at this session.	To attent and write	OHP and white board
Naration	To explain principle and object of meat processing To explain their aplications included variety of meat products.	To attent and write	OHP and white board
In closing	To ask many problems and give clarifications To give duty about another product that it has the same principle prosessing. Review and discuss about matters at this session.	To ask To attent and write To attent and write	

E. Evaluation :

This session tended to make students can explain principle and object of meats processing included their aplications. Example ; dendeng, abon, petis, meat ball ect.

F. Literatures :

1. Buckle, K.A., Edwards, R.A., Fleet, G.H. and Wooton, M. 1978. Food Science. Watson Ferguson and Co., Brisbane.
2. Hadiwiyoto, S. 1983. Hasil-hasil OlahanSusu, ikan, Daging, Telur. Liberti, Yogyakarta.
3. Hadiwiyoto, S. 1994. Teori dan Pengujian Mutu
4. Lawrie, R.A. 1995. Meat Science. (diterjemahkan oleh Parakkasi A. dan Y. Amwila- Ilmu Daging, UI Press Jakarta

SESSION UNITY OF LEARNING

Subject : Processing of Animal Product

code of subject : -

SKS : 2 (1-1)

Time of session : 100 minutes

Session : III

A. Object

1. TIU : After following this session, students can do and explain principles of meat processing
2. TIK :
   a. Students can do handling and processing of meat products..
   b. Students can identify quality of meats products according to SNI

B. Principal of subject : Technology of meat processing

C. Sub subject : Handling of fresh meat

Procedures of meat processing (abon, kyuring, dendeng, meat ball, exct)

D. Learning Activity :

stage	Lecturer activity	Student activity	Media and tool of learning
Introduction	To Explain all of matters at this session.	To attent and write	OHP and white board
Naration	To explain procedures of fresh meat handling (cooling and freezing) To explain Procedures of meat processing (abon, bakso, dendeng exct) To disccus about standardization of meat products quality	To attent and write	OHP and white board
In closing	To give clarification or detail informations Review all of matters at this session.	To ask To attent and write	

E. Evaluation :

This session tended to make students can do principles of meats processing.Example ; dendeng, abon, petis, meat ball ect.

F. Literatures :

1. Buckle, K.A., Edwards, R.A., Fleet, G.H. and Wooton, M. 1978. Food Science. Watson Ferguson and Co., Brisbane.
2. Hadiwiyoto, S. 1983. Hasil-hasil OlahanSusu, ikan, Daging, Telur. Liberti, Yogyakarta.
3. Hadiwiyoto, S. 1994. Teori dan Pengujian Mutu
4. Lawrie, R.A. 1995. Meat Science. (diterjemahkan oleh Parakkasi A. dan Y. Amwila-Ilmu Daging, UI Press Jakarta

SESSION UNITY OF LEARNING

Subjec t : Processing of Animal Product

code of subject : -

SKS : 2 (1-1)

Time of session : 100 minutes

Session : IV

A. Object

1. TIU : After following this session, students can explain and do principles of milk processing..
2. TIK :
   a. Students can say principles of milk processing.
   b. Students can explain aplicatios of the principles to milk products.

B. Principal of subject : Technology of milk Processing

C. Sub subject :

- Princiles and object
- Variety of milk products

D. Learning activity :

stage	Lecturer activity	Student activity	Media and tool of learning
Introduction	To Explain all of matters at this session..	To attent and write	OHP and white board
Naration	To explain Principles and object of milk processing To explain variety of milk products.	To attent and write	OHP and white board
In closing	To give clarification or detail informations Review all of matters at this session.	To ask To attent and write	

E. Evaluation :

This session tended to make students can explain principles and object of milk processing.and their aplicatios to some milk products.

F. Literatures

1. Adnan, M. 1984. Kimia dan Teknologi Pengolahan Air Susu. Andi Offset Yogyakarta.
2. Arbuckle, M. 1966. Ice Cream. Avi Publ. Co., Westport, Connecticut.
3. Berg. Van den. 1988. Dairy Technology in the Tropics and Subtropics. Pudoc, Wageningen.
4. Buckle, LA, RA Edward, GH Fleet dan M Wootton. 1985. Ilmu Pangan. Universitas Indonesia, Jakarta. (Diterjemahkan oleh Purnomo dan Adiyono).
5. Hadiwiyoto, S. 1983. Hasil-hasil Olahan Susu, Ikan, Daging, Telur. Penerbit Liberti, Yogyakarta.
6. Hadiwiyoto, S. 1994. Teori dan Prosedur Pengujian Mutu Susu dan Hasil Olahannya. Penerbit Liberti, Yogyakarta.
7. Robinson, RK. 1986. Modern Dairy Technology. Vol I & II. Elsevier Aplied Sci. Publ. London, New York.
8. Soeparno. 1992. Prinsip Kimia dan Teknologi Susu. PAU Pangan dan Gizi UGM, Yogyakarta.

SESSION UNITY OF LEARNING

Subject : Processing of Animal Product

code of subject : -

SKS : 2 (1-1)

Time of session : 100 minutes

Session : V

A. Object

1. TIU : After following this session, students can explain and do principles of milk processing..

2. TIK :

   a. Student can do handling and processing of milk.

   b. Students can identify quality of milk product according to SNI .

B. Principal of Subject : Technology of milk Processing

C. Sub Subject : Handling of fresh milk

Procedures of milk processing (pasteurized milk, UHT, yogurt, kefir, butter, ice cream, chesse ect.)

Quality of milk products.

D. Learning Activity :

stage	Lecturer activity	Student activity	Media and tool of learning
Introduction	To Explain all of matters at this session.	To attent and write	OHP and white board
Naration	To explain procedures of fresh milk handling To explain Procedures of milk processing To disccus about standardization of milk products quality	To attent and write	OHP and white board
In closing	To give clarification or detail informations Review all of matters at this session.	To ask To attent and write	

E. Evaluation :

This session tended to make students can do principles of milk processing.

F. Literatures :

1. Adnan, M. 1984. Kimia dan Teknologi Pengolahan Air Susu. Andi Offset Yogyakarta.
2. Arbuckle, M. 1966. Ice Cream. Avi Publ. Co., Westport, Connecticut.
3. Berg. Van den. 1988. Dairy Technology in the Tropics and Subtropics. Pudoc, Wageningen.
3. Buckle, LA, RA Edward, GH Fleet dan M Wootton. 1985. Ilmu Pangan. Universitas Indonesia, Jakarta. (Diterjemahkan oleh Purnomo dan Adiyono).
4. Hadiwiyoto, S. 1983. Hasil-hasil Olahan Susu, Ikan, Daging, Telur. Penerbit Liberti, Yogyakarta.
5. Hadiwiyoto, S. 1994. Teori dan Prosedur Pengujian Mutu Susu dan Hasil Olahannya. Penerbit Liberti, Yogyakarta.
6. Robinson, RK. 1986. Modern Dairy Technology. Vol I & II. Elsevier Aplied Sci. Publ. London, New York.
7. Soeparno. 1992. Prinsip Kimia dan Teknologi Susu. PAU Pangan dan Gizi UGM, Yogyakarta.

SESSION UNITY OF LEARNING

Subjec t : Processing of Animal Product

code of subject : -

SKS : 2 (1-1)

Time of session : 100 minutes

Session : VI

A. object

1. TIU : -
2. TIK : -

B. Principal of subject : Midterm test

C. **Sub of subject** :

D. Learning activity :

SESSION UNITY OF LEARNING

Subjec t : Processing of Animal Product

code of subject : -

SKS : 2 (1-1)

Time of session : 100 minutes

Session : VII

A. Object

1. TIU : After following this session, students can explain and do principles of egg handling and processing.

2. TIK :

c. Students can say principles of egg processing

d. Students can explain their aplicatios to egg products.

B. Principal of subject : Technology of egg processing

C. **Sub subject** :

- Principles and object
- Variety of egg products

D. Learning activity :

stage	Lecturer activity	Student activity	Media and tool of learning
Introduction	To Explain all of matters at this session..	To attent and write	OHP and white board
Naration	To explain Principles and object of egg processing To explain variety of egg products.	To attent and write	OHP and white board
In closing	To give clarification or detail informations Review all of matters at this session.	To ask To attent and write	

E. Evaluation : :

This session tended to make students can explain principles and object of egg processing.and their aplicatios to some egg products.

F. Literatures :

1. Card, C. E. dan M.C. Nesheim. 1973. Poultry Production. Lea and Fabiqes. Piladelphia.
2. Or, H.L dan D.A. Fletcher. 1973. Eggs and Egg Products. Canada Department of Agriculture, Canada.
3. Sarwono, B., B.A. Murtidjo dan A. Daryanto. 1986. Telur, Pengawetan dan Manfaatnya. Penebar Swadaya, Jakarta.
4. Romanoff, H.A.L dan AJ. Romanoff. 1963. The Avian Egg. Jhon Willey and Sons, Inc. New York.
5. Stadelman. WJ. dan OJ. Catterill. 1977. Egg Science and Technology. Avi Publ. Co., Connecticut.

SESSION UNITY OF LEARNING

Subjec t : Processing of Animal Product

code of subject : -

SKS : 2 (1-1)

Time of session : 100 minutes

Session : VIII

A. Object

1. TIU : After following this session, students can explain and do principles of egg processing.

2. TIK :

a. Student can do handling and processing of egg.

b. Student can identify quality of egg according to SNI and USDA.

B. Principal of subject : Technology of egg processing. S

C. Sub Pokok Bahasan : Egg handling

Procedures of egg processing (salty egg, pindang, egg powder, pitan or century egg ect)

Egg quality (SNI, USDA)

G. Learning Activity :

stage	Lecturer activity	Student activity	Media and tool of learning
Introduction	To Explain all of matters at this session.	To attent and write	OHP and whiteboard
Naration	To explain procedures of egg handling To explain Procedures of egg processing To disccus about standardization of egg products quality	To attent and write	OHP and whiteboard
In closing	To give clarification or detail informations Review all of matters at this session.	To ask To attent and write	

E. Evaluation : :

This session tended to make students can do principles of egg handling and processing

F. Literatures : :

1. Card, C. E. dan M.C. Nesheim. 1973. Poultry Production. Lea and Fabiqes. Piladelphia.
2. Or, H.L dan D.A. Fletcher. 1973. Eggs and Egg Products. Canada Department of Agriculture, Canada.
3. Sarwono, B., B.A. Murtidjo dan A. Daryanto. 1986. Telur, Pengawetan dan Manfaatnya. Penebar Swadaya, Jakarta.
4. Romanoff, H.A.L dan AJ. Romanoff. 1963. The Avian Egg. Jhon Willey and Sons, Inc. New York.
5. Stadelman. WJ. dan OJ. Catterill. 1977. Egg Science and Technology. Avi Publ. Co., Connecticut.

SESSION UNITY OF LEARNING

Subjec t : Processing of Animal Product

code of subject : -

SKS : 2 (1-1)

Time of session : 100 minutes

Session : IX

A. Object

1. TIU : After following this session, student can explain and do principles of animal by product handling and processing.

2. TIK :

a. Students can do handling and processing of animal by products.

b. Students can identify quality of animal by products.

B. Principal of Subject : Technology of animal by product

C. Sub subject : Handling of animal by product

Procedures of animal by product processing (bone meal, gelatine, ect.)

Quality of animal by product (SNI)

D. Learning activity :

stage	Lecturer activity	Student activity	Media and tool of learning
Introduction	To Explain all of matters at this session.	To attent and write	OHP and whiteboard
Naration	To explain procedures of animal by product handling To explain Procedures of animal by product processing To disccus about standardization of animal by product quality	To attent and write	OHP and whiteboard
In closing	To give clarification or detail informations Review all of matters at this session.	To ask To attent and write	

E. Evaluation :

This session tended to make students can do principles of animal by product handling and processing

F. Literatures :

1. Lawrie, R.A. 1995. Meat Science. (diterjemahkan oleh Parakkasi A. dan Y. Amwila-Ilmu Daging, UI Press Jakarta).
2. Man, I. 1980. Processing and Utilization of Animal by Product. FAO.

SESSION UNITY OF LEARNING

Subjec t : Processing of Animal Product

code of subject : -

SKS : 2 (1-1)

Time of session : 100 minutes

Session : X

A. Object

1. TIU : After following this session, Students can explain and do procedures of hide handling and processing.
2. TIK :
   a. Can explain Principles and object of hide preservation or processing..
   b. Can do preservation of hide.
   c. Can do Processing of hide (tanning, gelatin)

B. **Principal of subject** : Technology of hide Processing

C. **Sub Subject** :

- Prunciples and object
- Hide preservation
- Tanning

D. Learning Activity :

stage	Lecturer activity	Student activity	Media and tool of learning
Introduction	To Explain all of matters at this session.	To attent and write	OHP and whiteboard
Naration	To explain procedures of hide preservation To explain Procedures of hide processing(tanning) To disccus about standardization of leather and hide quality	To attent and write	OHP and whiteboard
In closing	To give clarification or detail informations Review all of matters at this session.	To ask To attent and write	

E. Evaluation : :

This session tended to make students can do principles of hide preservation and processing (tanning)

F. Literatures

1. Sharphouse (1971). Leather technisian and handbook 1st ed, 9th Thomas Street London.
2. Suwarastuti A. (1996). Teknologi Pasca Panen Hasil Ikutan Ternak.Diktat kuliah.
3. Yudoamijoyo R.M. (1981). Teknik Penyamakan Kulit untuk Pedesaan. Penerbit Angkasa Bandung.
4. Purnomo E. (1984). Penyamakan Kulit Kaki Ayam . Penerbit Kanisius.
5. Sri Untari (1996). Penyamakan/Pengawetan Kulit Kelinci dan Ikan Pari. BPPKP Yogyakarta.

SESSION UNITY OF LEARNING

Subjec t : Processing of Animal Product

code of subject : -

SKS : 2 (1-1)

Time of session : 100 minutes

Session : XI

A. Object

1. TIU : -

B. Principal of subject : test

C. **Sub subject :**

- session I to IX

D. learning activity :

COURSE	: Animal Product Knowledge
COURSE CODE	: PTF 209 P
CREDIT	: (2-1)3

ANIMAL AGRICULTURE OF DIPONEGORO UNIVERSITY
MAIN ROLE OF TEACHING PROCESS

Name of Course	:	**Animal Product Knowledge**
Code/sks	:	PTF 209 P / 3 (2 – 1)
Short Description	:	Discussion : meat science and technology, milk, eggs, hide and animal by product, physical, chemical and microbiology properties and basic quality of meat, milk, eggs, hide and animal by product and basic processing of meat, milk, eggs, hide and animal by product
Course Main Goal	:	After following this course student can explain about basic animal product technology i.e. Physical, chemical and microbiology properties and basic quality of meat, milk, eggs, hide and animal by product and do measurement of animal product quality.

References :

1. Hadiwiyoto, S, 1983. Hasil-hasil Olahan Susu, Ikan, Daging, Telur. Penerbit: Liberti Yogyakarta.
2. Hadiwiyoto, S, 1994. Teori dan Prosedur Pengujian Mutu Susu dan Hasil Olahannya. Penerbit: Liberti Yogyakarta.
3. Buckle, LA, RA. Edward, G.H Fleet dan M. Wootton. 1985. Ilmu Pangan. Universitas Indonesia. Jakarta (Diterjemahkan oleh Purnomo dan Adiyono).
4. Judo Amidjoyo M. 1981. Defek-defek Pada Kulit Mentah dan Samak. Penerbit Batara Karya Aksara. Jakarta.
5. Lawrie, R.A. 1981. Meat Science.
6. Mann, I. 1950. Processing and Utilization of Animal by Product, FAO.
7. Suparno, 1994. Ilmu dan Teknologi Daging. Gajahmada University Press.
8. Suwarastuti, A. dan Dwiloka, B. 1989. Dasar-dasar Teknologi Hasil Ikutan Ternak. Diktat Kuliah.
9. Winarno, F.G. 1980. Pengantar Teknologi Pangan. Penerbit PT. Gramedia.
10. Berbagai jurnal ilmiah nasional dan internasional.

No.	Course Specific Goal	Main Subject	Sub Subject	Time Estimation	References
1.	Student can explaining meat, meat classification, understands physical and chemical properties of meat.	Meat basic technology	Definition, classification, composition, physical And chemical properties of meat.	3 x 100 minute	1,2,5,7,9,10
2.	Student can explaining animal by product, animal by product classification, understands physical and chemical properties of animal by product.	Animal by product basic technology	Definition, classification, composition, physical And chemical properties of animal by product.	3 x 100 minute	4,6,8,10
3.	Student can explaining eggs, eggs classification, understands physical and chemical properties of eggs.	Eggs basic technology	Definition, classification, composition, physical And chemical properties of eggs.	3 x 100 minute	1,3,10
4.	Student can explaining milk, milk classification, understands physical and chemical properties of milk.	Milk basic technology	Definition, classification, composition, physical And chemical properties of milk.	3 x 100 minute	1,2,3,9,10
5.	Student can understand basic of storage and processing of animal product and animal by product. Can explaining method of handling, storage and processing of animal product and animal by product.	Basic Processing	Basic processing and storage of animal and animal by product. Method and process of animal and animal by product.	3 x 100 minute	1-10

COURSE	: BIOCHEMISTRY
COURSE CODE	: IPN 35-P
CREDIT	: 3 (2-1)

FACULTY OF ANIMAL SCIENCE DIPONEGORO UNIVERSITY
COURSE OUTLINE

COURSE : BIOCHEMISTRY

COURSE CODE / CREDIT : IPN35-P / (2-1) 3

BRIEF DESCRIPTION : Studying the metabolism of lipid, carbohydrate, protein and nucleotides in living organism as well as photosynthetic process as source of macronutrients formation

GENERAL OBJECTIVE : After completing this course, the students can describe metabolism of nutrients, describe the class and the action of enzymes involved, and explain photosynthetic process

No	Specific Objectives	Main Topic	Sub Topic	Allocated Time (100 minutes/ lecture)	References
1	After completing this topic, the student can: ▪ Explain macro & micro nutrients and their functions ▪ Defining metabolism, catabolism, anabolism, and digestion ▪ Describe the roles of biochemistry in animal science	Introduction	Course overview and Evaluation Macro and micro nutrients, and their function in living organism Understanding metabolism, catabolism, anabolism, and digestion, Roles of biochemistry in animal science	1 x	▪ Pictures on transparency ▪ Modules ▪ Hand-outs
2	After completing this topic, the student can explain : ▪ Structure and organization of cells ▪ Cell components and their function	Cell	▪ Structure and organization of cells ▪ Cell components and their functions	1x	▪ Modules ▪ Hand-outs

No	Spesific Objectives	Main Topic	Sub Topic	Allocated Time (100 minutes/ lecture)	References
3	After completing this topic, the student can explain : definition, function and factors that affect the function of an enzyme, Enzyme classification and nomenclature	Enzyme	Enzyme: definition, function and factors that affect the function of an enzyme, Enzyme classification and nomenclature	1x	▪ Modules ▪ Hand-outs
4	After completing this topic, the student can explain : • Lipid classification and chemical structures • Lipid oxidation to produce energy • Triglyceride anabolism • Definition and function of cholesterol • Cholesterol metabolism	Lipid	Lipid classification and chemical structures Lipid oxidation to produce energy Triglyceride anabolism Definition and function of cholesterol Cholesterol metabolism	3 x	▪ Modules ▪ Hand-outs
5	After completing this topic, the student can explain : ▪ Carbohydrate classification and chemical structures ▪ Carbohydrate catabolism via glycolysis and TCA cycle ▪ Carbohydrate anabolism	Carbohydrate	Carbohydrate: Carbohydrate classification and chemical structures Carbohydrate catabolism via glycolysis and TCA cycle Carbohydrate anabolism	3 x	▪ Modules ▪ Hand-outs
6	First Evaluation			1x	

No	Spesific Objectives	Main Topic	Sub Topic	Allocated Time (100 minutes/ lecture)	References
7	After completing this topic, the student can explain : Amino acid structures Protein digestion and metabolism	PROTEIN	Protein: Amino acid structures Protein Digestion and metabolism	2x	▪ Modules ▪ Hand-outs
8,9	After completing this topic, the student can explain : • the tructure of nucleic acid DNA & RNA, nucleic acid metabolism • protein synthesis (from DNA translation)	NUCLEIC ACID	Structure of nucleic acid: nucleotide, DNA, RNA, nucleic acid metabolism Protein synthesis (from DNA translation)	2x	▪ Modules ▪ Hand-outs
10	After completing this topic, the student can explain : • definition & unit of enzyme activity • factors affecting enzyme activities • Micheles Menten Equation	ENZYME KINETICS	Enzyme activity, Unit of enzyme activity Factors affecting enzyme activities Micheles Menten equation	1x	▪ Modules ▪ Hand-outs
	FINAL EVALUATION			1X	
	TOTAL LECTURES IN CLASS			16x	

*** REFERENCES :**

1. Lehninger, A. L. 1970. Biochemistry. 1st edition. Worth Publ. inc. New York.
2. Murray, R.K., Granner, D.K., Mayes, P.A. and Rodwell, V.W. 2003. Harper's Illustrated Biochemistry.

FAKULTAS PETERNAKAN UNIVERSITAS DIPONEGORO
TEACHING PROGRAM OUTLINE

Title of Subject	:	**Basic of Biochemistry Practicum**
Number of Code /CSS	:	PTF 202 P / 3 (2 – 1)
Brief Description	:	This subject apply the method or compose the reagent for biochemistry practicum, doing digestion of biochemistry process, examine the lactic acid in biochemistry of milk damaged, examine acetate acid in cassava fermentation correctly.
Specific Instructional Object	:	After following this practicumstudent can make reagent, doing digestion of biochemistry process, examine the lactic acid in biochemistry of milk damaged, examine acetate acid in cassava fermentation correctly.
Books material	:	1. Apriyantono A., D. Fardiaz, N.L. Puspitasari, Sedarnawati, dan S. Budiyanto. 1989. Analisis Pangan. PAU Pangan dan Gizi. IPB, Bogor. 2. Petunjuk Praktikum Biokimia. 1991. Laboratorium Biokimia. PS Kimia. FMIPA. UNDIP, Semarang. 3. Petunjuk Praktikum Biokimia. 2005. Laboratorium Fisiologi dan Biokimia. Fakultas Peternakan. UNDIP, Semarang. 4. Ruck, J.A. 1963. Chemical Methods for Analysis of Fruit and Vegetable Products. Canada Dep. Agric. Summerland. 5. West, E. S. dan W.R. Todd. 1961. Textbook of Biochimistry. The Mac Millon Book Co, New York.

No.	Specific Instructional Object	Main Discussin	Sub Discussion	Time Estimation	Books Material
1.	After following this practicumstudent can make reagent	Make reagent practicum	1. Make reagent for digestion practicum 2. Make reagent for examine acid test	2 x 50 minutes	1, 2, 3, 4, and 5
2.	After following this practicumdoing digestion of biochemistry process	Digestion	1. Carbohydrate digestion 2. Protein digestion 3. Lipid digestion	6 x 50 minutes	2 and 3
3.	After following this practicumexamine the lactic acid in biochemistry of milk damaged, examine acetate acid in cassava fermentation correctly.	Examine acid	1. Fresh milk damaged observation 2. cassava fermentation observation 3. Examine the lactic acid in fresh and damaged milk 4. Examine the lactic acid in cassava meal and fermented cassava	4 x 50 minutes	1, 2, 3, and 4

COURSE	: NUTRITION BIOCHEMISTRY
COURSE CODE	: PTM 301 P
CREDIT	: (2-1)3

COURSE OUTLINE

Subject Studied	:	Nutrition Biochemistry
Code of Subject	:	PTM 301P (2-1)
Discription	:	To study metabolism processes in the animal and its interrelated on animal product, especially meat, milk, egg and energy for work, and its control metabolism
General Objective	:	After lectured the student can afford explained nutrient metabolismvin animal and its interrelated on biosynthesis of animal product (meat, milk, egg) and energy for work, and analize its product based on metabolism principles.

No.	Specific Objective	Topics	Subtopics	Allocated time	Reference
1.	After completing this topic the student can explain the objective and the importance of nutrition biochemistry, interrelated another science, bioconvertion process of nutrient to animal product and energy for work	Introduction	• Objective and advantages in studying nutrition biochemistry • Interrelation of nutritional biochemistry and other field science • Metabolic pathway of nutrient convertion into animal product	2 x 50 menit	Lehninger, A.L. 1970. Biochemistry. 1st edition. Worth Publ. Inc. New York. Riis, P.M. 1983. Dynamic Biochemistry of Animal Production. Elsevier Sci. Publ. Amsterdam.
2.	After completing this topic the student can explain the growth metabolic processes of tissue (bone, meat, adipose) and its control metabolism; to make mention of the influence factors of growth	The growth of tisuue (meat, bone and adipose)	• The physiology of growth and influencing factors • Biosynthesis of bone, meat and adipose tissue	6 x 50 menit	Linder, M.C. 1992. Biokimia Nutrisi dan Metabolisme. Universitas Indonesia Press. Jakarta. (Diterjemahkan oleh A. Parakkasi).
					Forrest et al. 1975. Principles of Meat Science. WH. Freeman and Company, San Fransisco.

No.	Specific Objective	Topics	Subtopics	Allocated time	Reference
3.	After completing this topic the student can explain nutrient metabolism and milk biosynthesis in animal and its metabolism control	Milk biosynthesis	• Lactation physiology • Milk components and their precursor • Biosynthesis of milk components and factors that affect milk production • Vitamin and mineral secretion	8 X 50 menit	Larson, B.L. (Ed.). 1990. Lactation. The Iowa State Univ. Press-ames. Smith, G.H. 1971. Biology of Lactation. W.H. Freeman and Co., San Fransisco.
4.	After completing this topic the student can explain nutrient metabolism and egg biosynthesis in animal and its metabolism control	Egg biosynthesis	• Egg physiology and biosynthesis • Component of eggshell, yolk and egg albumin • Influencing factors in egg synthesis and its hormonal control	8 x 50 menit	Linder, M.C. 1992. Biokimia Nutrisi dan Metabolisme. Universitas Indonesia Press. Jakarta. (Diterjemahkan oleh A. Parakkasi). Riis, P.M. 1983. Dynamic Biochemistry of Animal Production. Elsevier Sci. Publ. Amsterdam.

No.	Specific Objective	Topics	Subtopics	Allocated time	Reference
5.	After completing this topic the student can explain nutrient metabolism and energy biosynthesis in animal and its metabolism control	Energy biosynthesis	• Physiology and mechanism of muscle contraction • Biosynthesis of energy and nutrient requirement for muscle contraction • Influencing factors in energy synthesis	4 x5 menit	Linder, M.C. 1992. Biokimia Nutrisi dan Metabolisme. Universitas Indonesia Press. Jakarta. (Diterjemahkan oleh A. Parakkasi). Forrest et al. 1975. Principles of Meat Science. WH. Freeman and Company, San Fransisco. Miffin, H. 1978. Biology of Physical Activity. Houghton Miffin Co. Boston.

Nutrition Biochemistry Laboratory
Animal Science Faculty
Diponegoro University

COURSE	:	NUTRITION AND FEED SCIENCE
COURSE CODE	:	
CREDIT	:	(2-1)3

FACULTY OF ANIMAL SCIENCE DIPONEGORO UNIVERSITY
COURSE OUTLINE

COURSE NAME : **Nutrition and Feed Science**

COURSE CODE / CREDIT : --- / 3(2-1)

BRIEF DESCRIPTION : Studying comparative anatomy, physiology, nutrient requirements, feed source, and composing nutrient requirements for poultry, swine, equine, and ruminants

GENERAL OBJECTIVE : After completing this course the students can explain requirements and nutrient use in poultry, swine, equine, and ruminants according to production purpose

No.	Specific Objectives	Topics	Sub Topics	Allocated Time (100 minutes/ lecture)	References
1.	After completing this topic the student can explain the scope and importance of nutrition and feed science	Introduction	The scope and importance of studying nutrition and feed science for poultry, swine, equine, and ruminants	1x	Prawirokusumo, S. 1994. Ilmu Gizi Komparatif. BPFE UGM. Yogyakarta. Scott, M.L.; M.C. Neshein and R.J. Young. 1982. Nutritiopn of the chicken. Scott and Associate. New York. Cunha, T.J. 1997. Swine feeding and nutrition. Academic Press. New York.
2.	After completing this topic the student can : ▪ compare the anatomy of digestive system among poultry, swine, equine, and ruminants ▪ explain the factors that affect digestive system	Comparative anatomy of digestive system	▪ Comparative anatomy of digestive system in poultry, swine, equine, and ruminants ▪ Comparative factors that affect digestive system	2x	Church, DC. 1988. The ruminant animal Digestive physiology and nutrition. A Reston Book. Penambul Banerjee, G.C. 1978. Animal Nutrition. New Delhi Cunha, T.J. 1997. Swine feeding and nutrition. Academic Press. New York.

No.	Specific Objectives	Topics	Sub Topics	Allocated Time (100 minutes/ lecture)	References
3.	After completing this topic the student can : compare the physiology of digestive system among poultry, swine, equine, and ruminants explain the factors that affect digestive physiology	Comparative physiology of digestive system	• Comparative physiology of digestive system in poultry, swine, equine, and ruminants • Comparative factors that affect digestive physiology	2x	Church, DC. 1988. The ruminant animal Digestive physiology and nutrition. A Reston Book. Penambul Banerjee, G.C. 1978. Animal Nutrition. New Delhi Scott, M.L.; M.C. Neshein and R.J. Young. 1982. Nutritiopn of the chicken. Scott and Associate. New York. Cunha, T.J. 1997. Swine feeding and nutrition. Academic Press. New York.
4.	After completing this topic the student can : ▪ compare the metabolism of nutrients in poultry, swine, equine, and ruminants ▪ explain the factors that affect absorption and production	Comparative nutrient metabolism	▪ Comparative metabolism of nutrients (carbohydrate, protein, lipid) in digestive system of poultry, swine, equine, and ruminants • Comparative absorption of metabolites and their effects on production	3x	Church, DC. 1988. The ruminant animal Digestive physiology and nutrition. A Reston Book. Penambul Scott, M.L.; M.C. Neshein and R.J. Young. 1982. Nutritiopn of the chicken. Scott and Associate. New York. Cunha, T.J. 1997. Swine feeding and nutrition. Academic Press. New York.

No.	Specific Objectives	Topics	Sub Topics	Allocated Time (100 minutes/ lecture)	References
5.	After completing this topic the student can determine nutrient requirement of livestock	Comparative nutrient requirements of livestock (poultry, swine, equine, and ruminants)	• Determining nutrient requirement for poultry (layer, broiler, duck) and the use of data from Table Nutrient Requirement • Determining nutrient requirement for swine and equine and the use of data from Table Nutrient Requirement • Determining nutrient requirement of ruminants (dairy, beef, goat/ sheep) and the use of data from Table Nutrient Requirement	4x	Nutrient Requirement Table for livestock (NRC 1994 , 2001); Kearl, 1988). Scott, M.L.; M.C. Neshein and R.J. Young. 1982. Nutritiopn of the chicken. Scott and Associate. New York. Cunha, T.J. 1997. Swine feeding and nutrition. Academic Press. New York.
6.	After completing this topic the student can describe the sources of feeds for livestock (poultry, swine, equine, and ruminants)	Feed source for poultry, swine, equine, and ruminants	• Conventional feed for livestock and their nutritional value • Inconventional feed for livestock and their nutritional value	2x	Banerjee, G.C. 1978. Animal Nutrition. New Delhi Sutardi et al. 1983. Standardisasi Mutu Protein Bahan Pakan di Indonesia
7.	After completing this topic the student can calculate nutrient consumption of livestock (poultry, swine, equine, and ruminants)	Determination of nutrien consumption according to physiological state	• Determination of feed consumption in poultry, swine, equine, and ruminants • Factors that affect feed consumption in poultry, swine, equine, and ruminants	2x	Parakkasi, A. 1983. Ilmu Nutrisi dan Makanan Ternak Monogastrik. 1B. Penerbit UI Press. Jakarta. Parakkasi, A. 1983. Ilmu Gizi Ternak Ruminansia Pedaging. UI Press. Jakarta
			Total lectures	16 x	

COURSE	: Feed Processing Technology
COURSE CODE	:
CREDIT	: 3 (2-1)

TEACHING OUTLINE PROGRAMS

COURSE'S TITLE : FEED PROCESSING TECHNOLOGY

COURSE'S CODE / Credit Semester Unit : / 3 (2-1)

Description : Knowledge of processing technique in physical, chemical, biological from various feedstuffs, including of concentrate, forage and also waste and by product to maintain the quality and improve the nutrition value.

General Instruction : After attending the course student will be able to explain and differentiate the processing technique of various feedstuffs and finally determine the strategy to maintain the quality and also improve the feed nutrition value.

No.	Specific Instruction	Main Subject	Main Sub Subject	Duration	Literatures
1.	After attending the course student will be able to explain the definition of feed technology processing, processing management and feed preservation.	Introduction	1. Definition of feed technology processing 2. Feedstuffs management, definition of processing and preservation.	4 x 50 minutes	• McEllhiary,R.R 1994.Feed Manufacturing Technology IV. Am.Feed Industry Assoc. Inc. Arlington • Pfost, H.B. 1964. Feed Production Handbook. Feed Production School Inc. Kansas city.
2.	After attending the course student will be able to explain about the strategy of cereal, forage and waste/by product processing.	Strategy of feedstuffs and waste/by product processing.	1. Strategy of cereal processing. 2. Strategy of forage processing. 3. Strategy of waste/by product processing.	6 x 50 minutes	• McEllhiary,R.R.1994.Feed Manufacturing Technology IV. Am.Feed Industry Assoc. Inc. Arlington • Pfost, H.B. 1964. Feed Production Handbook. Feed Production School Inc. Kansas city

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					• BoGohl. 1975. Tropical Feed Information Summaries and Nutritivves Value. FAO=UN. Rome
3.	After attending the course student will be able to explain about feed technology processing for concentrate systematically from grinding up to packaging.	Technology of cereal processing and preservation	1. Feed technology processing of concentrate. 2. Flowchart of material processing and physical mechanic processing (grinding, mixing, pelleting)	8 x 50 minutes	• McEllhiary,R.R.1994 Feed Manufacturing Technology IV. Am.Feed Industry Assoc. Inc. Arlington • Romindo Primavetcom. RPAN Seminar (A New Concept in Poultry Feed Technology).1994.Romindo Primavetcom Co. Jakarta. Unpublished. • Harding,H.A.1978. Manajemen Produksi (Seri Manajenen No.35). Penerbit Balai Aksasra. Jakarta. • Pfost, H.B. 1964. Feed Production Handbook. Feed Production School Inc. Kansas city
4.	After attending the course student will be able to explain about technology of forage processing and preservation physically, chemically, biologically.	Technology of forage processing and preservation.	1. Technology of physically forage processing and preservation. 2. Technology of chemically forage processing and preservation. 3. Technology of biologically forage processing and preservation.	6 x 50 minutes	• McEllhiary,R.R. 1994 Feed Manufacturing Technology IV. Am.Feed Industry Assoc. Inc. Arlington • Komar, A. 1984. Teknologi Pengolahan Jerami sebagai Makanan Ternak. Cetakan pertama. Yayasan Dian Grahita, Bandung. • Woolford,M.E. 1984. The Silage Fermentation. Marcel Dekker, Inc,

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					New York • McDonald, P.1981. Biochemistry of Silage. John Willey & Sons, New York • Harding,H.A.1978. Manajemen Produksi (Seri Manajenen No.35). Penerbit Balai Aksasra. Jakarta.
5.	After attending the course student will be able to explain about feed technology processing to produce complete feed systematically from grinding up to packaging.	Technology processing of complete feed	1. Definitionof Complete Feed 2. Technology of Complete Feed processing	4 x 50 minutes	• McEllhiary,R.R. 1994 Feed Manufacturing Technology IV. Am.Feed Industry Assoc. Inc. Arlington • Pfost, H.B. 1964. Feed Production Handbook. Feed Production School Inc. Kansas city.
6.	After attending the course student will be able to explain the advance development of feed technology processing	Prospect and the development of feed technology processing for feedstuffs and waste/by product.	1. Prospect and development of feed technology processing 2. Prospect and development of waste/by product technology processing as feedstuffs.	4 x 50 minutes	• Hodges, J dan Han IK. 2000. Livestock, Ethics and Quality of Life. CABI Publishing. New York. • McEllhiary,R.R. 1994. Feed Manufacturing Technology IV. Am.Feed Industry Assoc. Inc. Arlington • FAO. 1980. Fish Feed Technology. FAO-ACDP UNDP. Food and Agriculture Organization-UN. Rome

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Lecturing Program Outline (SAP)

COURSE : Technology of Feed Processing

CODE COURSE / SKS : / 3 SKS (2-1)

DURATION : 2 x 50 minutes

MEETING : I

A: OBJECTIVE

1. GENERAL INSTRUCTION (TIU) : After attending the course student will be able to explain and differentiate the processing technique of various feedstuffs and finally determine the strategy to maintain the quality and also improve the feed nutrition value.

2. SPECIFIC INSTRUCTION (TIK) : After attending the course student will be able to explain the definition and differentiate techniques of various feedstuffs processing, management of processing and preservation minimal 90% correct.

B. MAIN SUBJECT : Introduction

C. SUB MAIN SUBJECT : Course agreement.
Correlation among main subject, definition of Feed Processing Technology.
Management of feed processing and preservation.

D. LEARNING AND TEACHING ACTIVITY:

Activity	Lecturer Activity	Student Activity	Learning Equipments
Introduction			
• Description	Explaining the content on lecturing material of 1st Meeting.	Noticing	Power point presentation
• Relevancy	Explaining correlation among Main Subject	Noticing / questioning	Power point presentation
• TIK	Explaining the competency on TIU and TIK for 2nd Meeting.	Noticing / questioning	Power point presentation

Presentation • Description	Explaining the importance of feed processing	Noticing / questioning	Power point presentation
	Explaining the main idea of feed processing management regarding with the processing and preservation	Noticing / questioning	Power point presentation
	1. Asking student the understanding of feed processing.	Answering question	
	2. Asking student the understanding of feed processing management.	Answering question	
	3. Explaining 1 and 2	Noticing / giving suggestion	Power point presentation
• Example	Providing Example about the importance of feed processing technology.	Noticing / giving suggestion	Power point presentation
	Providing Example about processing & preservation.	Noticing / giving suggestion	Power point presentation
• Task	Discussing example of specific case on feed processing management	Working group, summarizing short report	
Closing • Test / Exercise	Address the delegation of working group to present the result of the discussion.	Presenting solution of the case study as the result of the discussion.	Power point presentation
	Inviting comments or questions from other student	Providing comments or questions concerning with case's solution presented	Power point presentation

• Evaluation	Giving evaluation and comments regarding the case's solution presented.	Noticing, giving suggestion and note lecturer's comment	

E. EVALUATION : Instrument used ⇒ essay Test to evaluate case's solution made by student which had been revised according to suggestion/ comment by lecturer and other students comparing with theory which was given.

F. REFERENCES : Pfost, H.B. 1964. Feed Production Handbook. Feed Production School Inc. Kansas City
McEllhiary,R.R. 1994 Feed Manufacturing Technology IV. Am. Feed Industry Assoc. Inc. Arlington

MEETING : II, III, IV

A: OBJECTIVE

1. GENERAL INSTRUCTION (TIU): After attending the course student will be able to explain and differentiate the processing technique of various feedstuffs and finally determine the strategy to maintain the quality and also improve the feed nutrition value.

2. SPECIFIC INSTRUCTION (TIK) : After attending the course with the sub main subject of cereal processing strategy student will be able to explain and differentiate techniques of cereal and concentrate processing systematically from grinding up to packaging minimal 90% correct.

B. MAIN SUBJECT : Cereal processing strategy.

C. SUB MAIN SUBJECT : Cereal processing strategy
Concentrate processing, flowchart of feed processing and physical processing (grinding, mixing, etc).
Processing (pelleting, crumbling, etc), equipments & processing machine, packaging.

D. LEARNING AND TEACHING ACTIVITY:

Activity	Lecturer Activity	Student Activity	Learning Equipments
Introduction			
• Description	Explaining content of material on 2nd Meeting	Noticing	Power point presentation
• Relevancy	Explaining correlation among Main Subject	Noticing / questioning	Power point presentation
• TIK	Explaining competencies on TIU and TIK for 2nd, 3rd and 4th Meeting.	Noticing / questioning	Power point presentation
Presentation			
• Description	1. Explaining the understanding of cereal processing strategy.	Noticing / questioning	Power point presentation
	2. Explaining the understanding of flowchart on feed processing.	Noticing / questioning	Power point presentation
	3. Explaining the understanding of physical feedstuffs processing.	Noticing / questioning	Power point presentation
	4. Asking the understanding of student about equipments & machine on concentrate processing.	Answering question	Power point presentation
	5. Explaining 4	Noticing / giving suggestion	Power point presentation
• Example	Providing Example about cereal processing.	Noticing / giving suggestion	Power point presentation
	Providing Example about packaging.	Noticing / giving suggestion	In Focus & PC
• Task	Discuss Example of case study on improving pellet	Working group, short summary report.	

	quality.		
Closing • Test / Exercise	Addressing group delegation to present result of the discussion. Inviting comment or question from other student.	Presenting case's solution as result of the discusion. Providing comments or question about case's solution presented.	Power point presentation
• Evaluation	Giving evaluation and comments regarding the case's solution presented.	Noticing, giving suggestion and note lecturer's comment	Power point presentation

E. EVALUATION : Instrument used ⇒ essay Test to evaluate case's solution made by student which had been revised according to suggestion/ comment by lecturer and other students comparing with theory which was given.

F. REFERENCES : Pfost, H.B. 1964. Feed Production Handbook. Feed Production School Inc. Kansas city

McEllhiary,R.R. 1994 Feed Manufacturing Technology IV. Am.Feed Industry Assoc. Inc. Arlington

Harding,H.A.1978. Manajemen Produksi (Seri Manajemen No.35). Penerbit Balai Aksara. Jakarta.

Pomindo Primavetcom. RPAN Seminar (A New Concept in Poultry Feed Technology). Romindo Primavetcom Co. Jakarta. Unpublished.

Pujaningsih,R.I. 2006. Pengelolaan Pakan Bijian. Cetakan 1. Penerbit Alif Press. Semarang.

MEETING : V, VI, VII and VIII

A: OBJECTIVE

1. GENERAL INSTRUCTION (TIU) : After attending the course student will be able to explain and differentiate the processing technique of various feedstuffs and finally determine the strategy to maintain the quality and also improve the feed nutrition value.

2. SPECIFIC INSTRUCTION (TIK) : After attending the course with main sub subject forage processing strategy student will be able to explain

about processing and preservation technology by drying, biologic, fermentation, silage processing and waffering minimal 90% correct.

B. MAIN SUBJECT : Forage processing strategy

C. SUB MAIN SUBJECT : Forage processing strategy
Forage processing and preservation by using hay production technology, fermentation and waffering.

D. LEARNING AND TEACHING ACTIVITY:

Activity	Lecturer Activity	Student Activity	Learning Equipments
Introduction • Description	Explaining content of material on 5th Meeting	Noticing	Power point presentation
• Relevancy	Explaining correlation among Main Subject	Noticing / questioning	Power point presentation
• TIK	Explaining competencies on TIU and TIK for 5th, 6th, 7th and 8th Meeting.	Noticing / questioning	Power point presentation
Presentation • Description	1.Explaining about forage processing strategy.	Noticing / questioning	Power point presentation
	2. Explaining about hay processing technology, amoniation, fermentation, wafering and the application	Noticing / questioning	Power point presentation
	3. Asking the understanding of student about forage processing & preservation technology & application	Answering question	Power point presentation
	4. Explaining 3	Answering question	Power point presentation

• Example	Providing example about application of forage processing technology	Noticing / giving suggestion	In Focus & PC
• Task	Discuss example of case's study on forage processing & preservation	Working group, short summary report.	
Closing			
• Test / Exercise	Addressing group delegation to present result of the discussion.	Presenting case's solution as result of the discusion.	Power point presentation
	Inviting comment or question from other student.	Providing comments or question about case's solution presented.	
• Evaluation	Giving evaluation and comments regarding the case's solution presented.	Noticing, giving suggestion and note lecturer's comment	Power point presentation

E. EVALUATION : Instrument used ⇒ oral Test to evaluate case's solution made by student which had been revised according to suggestion/ comment by lecturer and other students comparing with theory which was given.

F. REFERENCES : McEllhiary,R.R. 1994 Feed Manufacturing Technology IV. Am.Feed Industry Assoc. Inc. Arlington

Harding,H.A.1978. Manajemen Produksi (Seri Manajemen No.35). Penerbit Balai Aksasra. Jakarta.

MEETING : IX, X, XI and XII

A: OBJECTIVE

1. GENERAL INSTRUCTION: After attending the course student will be able to explain and differentiate the processing technique of various feedstuffs and finally determine the strategy to maintain the quality and also improve the feed nutrition value.

2. SPECIFIC INSTRUCTION : After attending the course student will be able to explain about prospect and the development of agricultural & industry waste/by product processing technology for feed minimal 80% correct.

B. MAIN SUBJECT : Agriculture waste/by product processing strategy.

C. SUB MAIN SUBJECT : Agriculture waste/by product processing strategy.
Feed processing of agriculture & industry feedstuffs.
Prospect & Technology development of Feed Processing

D. LEARNING AND TEACHING ACTIVITY:

Activity	Lecturer Activity	Student Activity	Learning Equipments
Introduction			
• Description	Explaining content of material on 6th Meeting	Noticing	Power point presentation
• Relevancy	Explaining correlation among Main Subject	Noticing / questioning	Power point presentation
• TIK	Explaining competencies on TIU and TIK for 9th, 10th, 11th and 12th Meeting.	Noticing / questioning	Power point presentation
Presentation			
• Description	1. Explaining about agriculture & industrial waste/by product processing strategy.	Noticing / questioning	Power point presentation
	2. Explaining about prospect & Technology development of Feed Processing	Noticing / questioning	Power point presentation
	3. Asking the understanding of student about waste/by product processing strategy, application & prospect	Answering question	Power point presentation

	5. Explaining 3	Noticing / giving suggestion	Power point presentation
• Example	Providing example about application of using agriculture & industrial waste/by product as feed	Noticing / giving suggestion	In Focus & PC
• Task	Discuss example of case's study on using agriculture & industrial waste/by product as feed	Working group, short summary report.	
Closing			
• Test / Exercise	Addressing group delegation to present result of the discussion.	Presenting case's solution as result of the discusion.	Power point presentation
	Inviting comment or question from other student.	Providing comments or question about case's solution presented.	
• Evaluation	Giving evaluation and comments regarding the case's solution presented.	Noticing, giving suggestion and note lecturer's comment	Power point presentation

E. EVALUATION : Instrument used ⇒ oral Test to evaluate case's solution made by student which had been revised according to suggestion/ comment by lecturer and other students comparing with theory which was given.

F. REFERENCES : Nurtjahya, E., Rumetor, SD., Salamena, JF., Hernawan, E., Darwati, S., dan Soenarno, SM. 2003. Pemanfaatan Limbah Ternak Ruminansia untuk Mengurangi Pencemaran Lingkungan. Makalah Pengantar Falsafah Sains. Program Pasca Sarjana / S3. Institut Pertanian Bogor

Yuwono, SD. 2002. Penerapan life cycle assessment pada pemanfaatan limbah pertanian menjadi furfural.Jurnal IPTEKS.

COURSE	:	Basic Animal Nutrition
COURSE CODE	:	
CREDIT	:	3 (2-1)

LECTURING AGENDA UNIT

Subject Studied : Basic Animal Nutrition
Subject Code : _____
Credits : 3 (2-1)
Duration : 100 minute (2 x 50 minute)
Meeting of the : 1st

A. Instrution

1. General Instruction : End of lecture, student could explain about definition, history and development of nutrition science; the objective of learning basic animal nutrition and feedstuffs classification
2. Specific Instruction : End of lecture, student could explain well about definition, history and development of nutrition science; the objective of learning basic animal nutrition; the relation of other sciences and feedstuffs classification

B. Main Topic : The history and development of nutrition science

C. Sub Topic : Course outline; definition, history and development of nutrition science; the objective of learning basic animal nutrition; the relation of other sciences; International feedstuffs classification

D.Teaching Learning Activity :

Steps	Teaching Activity	Student Activity	Teaching Instrument
Introduction	1. Giving the course outline 2. Explain the course outline, schedule, the role and evaluation methode of the whole lecture included the laboratory work 3. Explain the general and specisfic intruction of this meeting	Listening, question Listening, question	Copy of course outline LCD
Delivery	4. Giving hand out of this topic 5. Explain about definition, history and development of nutrition science 6. Explain the usefullness and the objective of studying this subject and the relation of other field of science 7. Giving sample of some field of science and explain the role and the relationship animal nutrition science 8. Explain and give sample about international feedstuffs clasification 9. Stimulate question and comment from student	Listening, question Listening, question and giving an idea Question, giving an idea and discussion Discussion	Copy of Hand out about definition, history and development of nutrition science LCD
Closing Remark	10. Summarize and highlight the importance 11. Giving hand out for the next topic	Listening, question and giving an idea Writing the comment Reading and learning the hand out	LCD Copy of hand out for the next topic

E. Evaluation : using respon card, question and home work that give at the end of each meeting

F. References :

1. Pond, W.G., D.C. Church, and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons, New York.
2. Sutardi, T. 1980. Landasan Ilmu Nutrisi. Book 1. Departemen Ilmu Makanan Ternak Fakultas Peternakan Institut Pertanian Bogor, Bogor (Not Published).
3. Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo and S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press, Yogyakarta.

LECTURING AGENDA UNIT

Duration : 400 minute (8 x 50 minute)
Meeting of the : 2nd, 3rd, 4th and 5th

A. Instruction

1. General Instruction : End of lecture, student could explain about composition and function of nutrient for animals body
2. Specific Instruction : End of lecture, student could explain about nutrient composition of feedstuffs based on Weende and Van Soest analysis method as well as conversion on nutrient content; Nutrient composition of plant and animal and its function in animal body

B. Main Topi : Composition and function of nutrient for animal body

C. Sub Topic :

- nutrient composition of feedstuffs based on Weende and Van Soest analysis method as well as conversion on nutrient content
- Nutrient compositin of plant and animal and its function in animal body

D. Teaching Learning Activity :

Steps	Teaching Activity	Student Activity	Teaching Instrument
Introdution	1. Explain the general and specisfic intruction of the 2nd to 5th meeting 2. Explain the benefit of studying this topic	Listening, question	LCD
Delivery	3. Explain about nutrient composition fractionation based on Weende dan Van Soest anlysis	Listening, question	Hand out of Composistion and function of nutrient in animal body
	4. Giving an exsample of nutrient composition based on Weende dan Van Soest analysis	Question and giving idea	LCD
	5. Explain about the nutrient content of feedstuff based on fresh, air dry and oven dry		Table of Feedstuffs Composition
	6. Explain how to convert nutrient content from fresh to air dry and into oven dry	Question and giving idea	
	7. Giving problem on nutrient content conversion		LCD
	8. Giving home work on computation of nutrient content conversion	Question, giving idea and Discussion	
	9. Stimulate question and comment from student		
	10. Explain about nutrient composition of plant and animal as well as the function in animal body		
	11. Giving home wark to find at least 3 feedstuffs showing the nutrient composition base on Weende dan Van Soest analysis and explain which kind of animal could eat the feedstuffs and what is the fucntion for the animal of those dominated nutrient in feedstuffs	Group discussion	
	12. Stimulate question and comment from student	Question, giving idea and Discussion	
Closing Remark	13. Summarize and highlight the importance	Memperhatikan, sumbang saran dan mencatat komentar	LCD
	14. Giving hand out for the next topic	pengajar	Hand out for the next topoic

E. Evaluation : using respon card, question and home work that give at the end of each meeting

F. References :

1. AOAC. 2005. Official Methods of Analysis of The Association of Official Agricultural Chemists. AOAC, Washington D.C.
2. Crampton, E.W. dan L.E. Harris. 1969. Applied Animal Nutrition. 2nd Ed. W.H. Freeman and Co., San Fransisco.

3. Cullison, A.E. 1978. Feeds and Feeding. Prentice Hall of Indian Private Ltd., New Delhi.
4. Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons, New York.
5. Sutardi, T. 1980. Landasan Ilmu Nutrisi. Book I. Departemen Ilmu Makanan Ternak Fakultas Peternakan Institut Pertanian Bogor, Bogor (Not Published).

LECTURING AGENDA UNIT

Duration : 500 minute (10 x 50 minute)
Meeting of the : 6th , 7th , 8th dan 9th

A. Instruction

1. General Instruction : End of lecture, student could explain about function and process of nutrient digestion and absorption in ruminant and non ruminant
2. Specific Instruction : End of lecture, student was capable to:
   a. Group animals base on the gastric, digestion phisiology and kind of feed eaten
   b. Differentiate the antomy and function of the digestive truct in the different kind of animal
   c. Differentiate the place and process of digestion and nutrient absoption that included carbohydrate, lipid, protein, vitamin and mineral
   d. Mastering of physiology control of feed intake

B. Main Topic : Function and process of nutrient digestion and absorption

C. Sub Topic :

- Anatomy of digestive organ of ruminant, non ruminant, pseudoruminant and poultry
- Digestion process and nutrient (carbohidrate, lipid, protein, vitamin dan mineral) absoption
- Physiology control of feed intake

D. Teaching Learning Activity

Steps	Teaching Activity	Student Activity	Teaching Instrument
Introduction	1. Explain the general and specisfic intruction of the 6th to 9th meeting 2. Explain the benefit of studying this topic	Listening, question	LCD
Delivery	3. Explain animal groupping based on kind of feed eaten (herbivore, omnivore and karnivore) and give sample of the animals	Listening, question	Hand out of this topic
	4. Explain the digestive organs in succession from mout to anus	Question and giving idea	
	5. Explain animal groupping based on their gastric (monogastric and poligastric) and give sample of the animals		LCD
	6. Explain the meaning of digestion process included the 3 kind general digestion process	Question and giving idea	
	7. Explain animal groupping based on digestion physiology (ruminant, non ruminant, pseudoruminant dan poultry) and give sample of the animals	Question, giving idea and Discussion	Illustration of digestive organ of each animal
	8. Giving assignment to the group of student as follows: let each group choose a feedstuffs and explain how this feed would be digested in a specific animal (choose one animal per group)	Work the assignment	
	9. Discuss the topic in the group and present the summury in the class	Group discussion	LCD
	10. Guide the group or class discussion, stimulate question and comment	Present the summary	
	11. Summarize and highlight the importance	Class discussion	
	12. Explain the anatomy of digestive organ and its function in ruminant, non ruminant and poultry	Question, giving idea and Discussion	
	13. Explain the nutrien digestion processes included carbohidrate, lipid, protein, vitamin, mineral and water untill it ready to be absorp	Question, giving idea and Discussion	
	14. Explain the absorption process of end product of nutrient digestion and place of absorption along the digestive truct	Question, giving idea and Discussion	
Closing Remark	15. Summarize and highlight the importance	Question, giving idea and Discussion	LCD

	16. Giving hand out for the next topic	Giving hand out for the next topic	Hand out for the next topic

E. Evaluation : using respon card, question and home work that give at the end of each meeting

F. References :

1. Lassiter, J.W., and H.M. Edwards. 1982. Animal Nutrition. Reston Publishing Company Inc. A Prentice-Hall Company, Reston.
2. Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons, New York.
3. Prawirokusumo, S. 1994. Ilmu Gizi Komparatif. Cetakan I. BPFE, Yogyakarta.
4. Sutardi, T. 1980. Landasan Ilmu Nutrisi. Book 1. Departemen Ilmu Makanan Ternak Fakultas Peternakan Institut Pertanian Bogor, Bogor (Not Published).
5. Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo and S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press, Yogyakarta.

LECTURING AGENDA UNIT

Duration : 200 minute (4 x 50 minute)
Meeting of the : 10th and 11th
A. Instruction
1. General Instruction : End of lecture, student could explain about function and process of nutrient digestion and absorption
2. Specific Instruction : End of lecture, student could classified the nutrient requirement for maintanace (protein dan energy); growth and fattening; Reproduction, lactation and production (work, egg, wool)
B. Main Topic : Nutrient requirement classification based on physiological status of the animal
C. Sub Topic : Nutrient requirement for: maintanace (protein dan energy); growth and fattening; Reproduction, lactation and production (work, egg, wool)
D.Teaching LeaRning Activity :

Steps	Teaching Activity	Student Activity	Teaching Instrument
Introdution	1. Explain the general and specisfic intruction of the 10th to 11th meeting 2. Explain the benefit of studying this topic	Listening, question	LCD
Delivery	3. Explain the meaning of nutrient requirement and the benefit for the animal 4. Explain nutrien requirement base on physiological status (maintanace, growth and fattening; Reproduction, lactation and production (work, egg, wool) 5. Explain how to read nutrient requirement in the table of nutrient requirement 6. Giving assignment: looking for nutrient requirement of specific animal at a certain physiological stage 7. Present the result 8. Stimulate questionand comment	Listening, question Question, giving idea and Discussion Group discussion Present the result Question, giving idea and Discussio	Hand out of this topic LCD Table of nutrient requirement of the kind of animal at the different physiological stages LCD
Closing Remark	9. Summarize and highlight the importance 10. Giving hand out for the next topic	Question, giving idea and Discussion Giving hand out for the next topic	LCD Hand out for the next topic

E. Evaluation : using respon card, question and home work that give at the end of each meeting

F. References :
1. Crampton, E.W. and L.E. Harris. 1969. Applied Animal Nutrition. 2nd Ed. W.H. Freeman and Co., San Fransisco.
2. Cullison, A.E. 1978. Feeds and Feeding. Prentice Hall of Indian Private Ltd., New Delhi.
3. Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons, New York.
4. Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo and S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press. Yogyakarta

LECTURING AGENDA UNIT

Duration : 100 minute (2 x 50 minute)
Meeting of the : 12th
A. Istruction
1. General Instruction : End of lecture, student could explain about the meaning and method used for feed digestion evaluation in ruminant and non ruminant
2. Specific Instructrion : End of lecture, student could explain and choose the right digestion method for ruminant and non ruminant based on the available instrument.

B. Main Topic : Feed digestion evaluation method

C. Sub Topic : 1. The meaning of digestion; 2. Digestion method measurement : *In vivo* (indicator, total colektion and force feeding), *In vitro, In sacco* (*in situ*)
D. Teaching Learning Activity :

Steps	Teaching Activity	Student Activity	Teaching Instrument
Introdution	1. Explain the general and specisfic intruction of the 12th meeting 2. Explain the benefit of studying this topic	Listening, question	LCD
Delivery	3. Explain the meaning and evaluation method of feed digestion	Listening, question	Hand out of this topic
	4. Explain several methods of feed digestion {*In Vivo* (Indicator, Total colection, Force Feeding), *In Vitro*, *In Situ/In Sacco*}	Question, giving idea and Discussion	LCD
	5. Explain the benefit and the harmfulness of each method		
	6. Giving assignment to the student to look for feed digestion evaluation from student last task or jurnals	Group discussion	Research report, journals
	7. Present the result	Present the result	LCD
	8. Stimulate questiona and comment from the student	Question, giving idea and Discussio	
Closing Remark	9. Summarize and highlight the importance	Question, giving idea and Discussion	LCD
	10. Giving homework : looking a digestion evaluation method used in an experiment		
	11. Giving hand out for the next topic	Giving hand out for the next topic	Hand out for the next topic

E. Evaluation : using respon card, question and home work that give at the end of each meeting

F. References :

1. Crampton, E.W. and L.E. Harris. 1969. Applied Animal Nutrition. 2nd Ed. W.H. Freeman and Co., San Fransisco.
2. Cullison, A.E. 1978. Feeds and Feeding. Animal Nutrition. Prentice Hall of Indian Private Ltd., New Delhi.
3. Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons, New York.
4. Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo and S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press, Yogyakarta

LECTURING AGENDA UNIT

Duration : 100 minute (2 x 50 minute)
Meeting of the : 13 th

A. Instruction
1. General Instruction : End of lecture, student could explain about feed nutrient balance
2. Specific Instruction : End of lecture, student could compute the nutrient balance especially the balance of N and C, energy and protein as well as mineral

B. Main Topic : Feed nutrient balance

C. Sub Topic : Nutrient balance ; N dan C balance; Mineral balance; Energy and protein balance

D. Teaching Learning Activity

Steps	Teaching Activity	Student Activity	Teaching Instrument
Introdution	1. Explain the general and specisfic intruction of the 13th meeting 2. Explain the benefit of studying this topic	Listening, question	LCD
Delivery	3. Explain about the meaning of feed nutrient balance 4. Explain about feed nutrient balance, balance of N dan C, mineral, energy and protein 5. Giving sample of computation of each balance (N dan C, mineral, energy and protein) 6. Giving assignment of those computation (1 problem each) 7. Present the result 8. Stimulate question and comment	Listening, question Question, giving idea and Discussion Discussion Group discussion Present the result Question, giving idea and Discussio	Hand out of this topic LCD Research report, journals LCD
Closing Remark	9. Summarize and highlight the importance 10. Giving hand out for the next topic	Question, giving idea and Discussion Giving hand out for the next topic	LCD Hand out for the next topic

E. Evaluation : using respon card, question and home work that give at the end of each meeting

F. References :

1. Cullison, A.E. 1978. Feeds and Feeding. Animal Nutrition. Prentice Hall of Indian Private Ltd., New Delhi.
2. Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons, New York.
3. Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo and S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press, Yogyakarta.

LECTURING AGENDA UNIT

Duration : 100minute (2 x 50 minute)
Meeting of the : 14th

A. Instruction
1. General Instruction : End of lecture, student could explain about energy value of feedstuff

2. Specific Instruction : End of lecture, student could choose the right method to evaluate the energy of feedstuffs for the different kind of animal than computed base on the different criteria of energy(Gross Energy, Digestible Energy, Metabolizable Energy, Heat Increament, NetEnergy)

B. Main Topic : Energy value of feedstuff
C. Sub Topic : Gross Energy, Digestible Energy, Metabolizable Energy, Heat Increament , Net Energy

D. Teaching Learning Activity

Steps	Teaching Activity	Student Activity	Teaching Instrument
Introdution	1. Explain the general and specisfic intruction of the 14th meeting 2. Explain the benefit of studying this topic	Listening, question	LCD
Delivery	3. Explain the meaning of feedstuffs energy value 4. Explain the different kind of energy value in feedstuffs (Gross Energy, Digestible Energy, Metabolizable Energy, Heat Increament, Net Energy) 5. Explain the relationship of those energy values (Gross Energy, Digestible Energy, Metabolizable Energy, Heat Increament, Net Energy) 6. Giving sample of a feedstuffs energy value and explain how to get the value, and let the student categorize the value 7. Giving several cases on grouping feedstuffs energy value wheather it include as GE, DE dan ME 8. Present the result 9. Stimulate question and comment	Listening, question Question, giving idea and Discussion Question, giving idea and Discussion Discussion Group discussion Present the result Question, giving idea and Discussion	Hand out of this topic LCD Research report, journals LCD LCD
Closing Remark	10. Summarize and highlight the importance 11. Giving hand out for the next topic	Question, giving idea and Discussion Giving hand out for the next topic	LCD Hand out for the next topic

E. Evaluation : using respon card, question and home work that give at the end of each meeting

F. References :

1. Crampton, E.W. and L.E. Harris. 1969. Applied Animal Nutrition. 2nd Ed. W.H. Freeman and Co., San Fransisco.
2. Cullison, A.E. 1978. Feeds and Feeding. Animal Nutrition. Prentice Hall of Indian Private Ltd., New Delhi.
3. Lassiter, J.W. and H.M. Edwards. 1982. Animal Nutrition. Reston Publishing Company Inc. A Prentice-Hall Co., Reston.
4. Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons, New York.
5. Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo and S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press. Yogyakarta.

LECTURING AGENDA UNIT

WaDuration : 100 minute (2 x 50 minute)
Meeting of the : 15th

A. Instruction
1. General Instruction : End of lecture, student could compute and used of energy unit system and protein balance in feed
2. Specific Instruction : End of lecture, student could compute and applied the energy system in relation to balancing with the protein in the feed

B. Main Topic : Energy unit system and protein balance in feed

C. Sub Topic : Starch Grade, Milk Grade, Futter Einhet (FE); Total digestible nutrients (TDN) dan protein balance

D. Teaching Learning Activity

Steps	Teaching Activity	Student Activity	Teaching Instrument
Introdution	1. Explain the general and specisfic intruction of the 15th meeting 2. Explain the benefit of studying this topic	Listening, question	LCD
Delivery	3. Explain the meaning of sistem enegy unit and protein balance 4. Explain about the diffrent kind of enegy unit (Starch Grade, Milk Grade, Futter Einhet (FE); Total digestible nutrients/TDN) and protein balance 5. Giving some value of those energy unit and explain or asking the student the meaning of the value 6. Giving problem of Starch Grade, Milk Grade, Futter Einhet (FE); Total digestible nutrients/TDN) and protein balance	Listening, question Question, giving idea and Discussion Question, giving idea and Discussion Discussion Question, giving idea and Discussion	Hand out of this topic LCD Research report, journals LCD
Closing Remark	7. Summarize and highlight the importance 8. Giving hand out for the next topic	Question, giving idea and Discussion Giving hand out for the next topic	LCD Hand out for the next topic

E. Evaluation : using respon card, question and home work that give at the end of each meeting

F. References :

1. Crampton, E.W. and L.E. Harris. 1969. Applied Animal Nutrition. 2nd Ed. W.H. Freeman and Co., San Fransisco.
2. Cullison, A.E. 1978. Feeds and Feeding. Animal Nutrition. Prentice Hall of Indian Private Ltd., New Delhi.
3. Soelistyono, H.S. 1976. Dasar-dasar Ilmu Makanan Ternak. Cetakan Kedua. Fakultas Peternakan Universitas Diponegoro. Semarang (Not Published).

LECTURING AGENDA UNIT

Duration : 100 minute (2 x 50 minute)
Meeting of the : 16th

A. Instruction
1. General Instruction : End of lecture, student could explain about feed protein evaluation
2. Specific Instruction : End of lecture, student could choose and apply on feed protein evaluation in ruminant and non ruminant
B. Main Topic : Feed protein evaluation

C. Sub Topic : Protein quality measurement in ruminant; Protein quality measurement in non-ruminant

D. Teaching Learning Activity

Steps	Teaching Activity	Student Activity	Teaching Instrument
Introdution	1. Explain the general and specisfic intruction of the 16th meeting 2. Explain the benefit of studying this topic	Listening, question	LCD
Delivery	3. Explain the meaning of feed protein evaluation 4. Explain the different kind of method on feed protein evaluation included biological value, protein efficiency ratio, nitrogen retention, net protein retention and net protein utilization 5. Giving cases on feed protein evaluation in ruminant a. Ask the sutdent about the right method b. Discuss the answer in terms of the benefit and the harmfullness ot the method c. Explain the main principles on doing feed protin evaluation in ruminant d. Summarized and highlight the right method on feed protein evaluation in ruminant e. 6. Giving cases on feed protein evaluation in non ruminant a. Ask the sutdent about the right method b. Discuss the answer in terms of the benefit and the harmfullness ot the method c. Explain the main principles on doing feed protin evaluation in non ruminant d. Summarized and highlight the right method on feed protein evaluation in non ruminant	Listening, question Question, giving idea and Discussion Discussion Question, giving idea and Discussion Question, giving idea and Discussion discussion Question, giving idea and Discussion Question, giving idea and Discussion	Hand out of this topic LCD Research report, journals LCD LCD
Closing Remark	7. Summarize and highlight the importance	Question, giving idea and Discussion	LCD

E. Evaluation : using respon card, question and home work that give at the end of each meeting

F. References :

1. Crampton, E.W. and L.E. Harris. 1969. Applied Animal Nutrition. 2nd Ed. W.H. Freeman and Co., San Fransisco.
2. Cullison, A.E. 1978. Feeds and Feeding. Animal Nutrition. Prentice Hall of Indian Private Ltd., New Delhi.
3. Lassiter, J.W. and H.M. Edwards. 1982. Animal Nutrition. Reston Publishing Company Inc. A Prentice-Hall Co., Reston.
4. Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons, New York.
5. Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo dan S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press, Yogyakarta.

COURSE OUTLINE

Subject Studied : Basic Animal Nutrition
Subject Code/Credits : _____ / 3(2-1)
Description :

Knowlegde of: (1) Definition of nutrition science, feedstuffs classification, nutrient composition of feedstuffs based of Weende and Van Soest analysis method, computing nutrient content and energy of feedstuffs based on Weende proximate analysis; (2) Digestion system, function and nutrient digestion processes until it absorbed in different kind of animal based on their anatomy, physiology and kind of feed eaten.

General Instruction : End of lecture, student could understand and explain about nutrients composition of feedstuff, computing nutrient content and energy of feedstuffs based on Weende proximate and Van Soest analysis; the student could also master and differentiate digestion processes as well as nutrient absorption in the different kind of animal based on its physiological status

Laboratory Topics : Introducing and identification the different kind of feedstuff, digestion organs of ruminant, non ruminant, pseudo ruminant and poultry; computing DE, ME and TDN value of feed.

No.	Specific Instruction	Main Topic	Sub Topic	Time Estimation	References
1.	End of lecture, student could explain about definition, history and development of nutrition science; the objective of learning basic animal nutrition; the relation of other sciences and feedstuffs classification	The history and development of nutrition science	• Course outline • definition, history and development of nutrition science • the objective of learning basic animal nutrition • the relation of other sciences • International feedstuffs classification	2 x 50 menit	Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons. New York. Sutardi, T. 1980. Landasan Ilmu Nutrisi. Book I. Departemen Ilmu Makanan Ternak Fakultas Peternakan Institut Pertanian Bogor. Bogor (Not Published). Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo and S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press, Yogyakarta.
2.	End of lecture, student could explain about composition and function of nutrient for animals body	Composition and function of nutrient for animal body	• nutrient composition of feedstuffs based on Weende and Van Soest analysis method as well as conversion on nutrient content • Nutrient compositin of plant and animal and its function in animal body	8 X 50 menit	AOAC. 2005. Official Methods of Analysis of The Association of Official Agricultural Chemists. AOAC, Washington D.C. Crampton, E.W. and L.E. Harris. 1969. Applied Animal Nutrition. 2nd Ed. W.H. Freeman and Co., San Fransisco. Cullison, A.E. 1978. Feeds and Feeding. Prentice Hall of Indian Private Ltd., New Delhi. Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons. New York. Sutardi, T. 1980. Landasan Ilmu Nutrisi. Book I. Departemen Ilmu Makanan Ternak .Fakultas Peternakan Institut Pertanian Bogor. Bogor (Not Published).
3.	End of lecture, student could explain about function and process of nutrient digestion and absorption in ruminant and non ruminant	Function and process of nutrient digestion and absorption	• Anatomy of digestive organ of ruminant, non ruminant, pseudoruminant and poultry • Digestion process and nutrient (carbohidrate, lipid, protein, vitamin dan mineral) absoption • Physiology of feed intake	8 x 50 menit	Lassiter, J.W. and H.M. Edwards. 1982. Animal Nutrition. Reston Publishing Company Inc. A Prentice-Hall Company, Reston. Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons, New York. Prawirokusumo, S. 1994. Ilmu Gizi Komparatif. Cetakan I. BPFE, Yogyakarta. Sutardi, T. 1980. Landasan Ilmu Nutrisi. Book I. Departemen Ilmu

					Makanan Ternak Fakultas Peternakan Institut Pertanian Bogor, Bogor (Not Published). Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo and S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press, Yogyakarta.

4.	End of lecture, student could explain about function and process of nutrient digestion and absorption	Nutrient requirement classification based on physiological status of the animal	• Nutrient requirement for:
			  • maintanace (protein dan energy)
			  • growth and fattening
			  • Reproduction, lactation and production (work, egg, wool)
				4 x 50 menit	Crampton, E.W. and L.E. Harris. 1969. Applied Animal Nutrition. 2nd Ed. W.H. Freeman and Co., San Fransisco.
					Cullison, A.E. 1978. Feeds and Feeding. Prentice Hall of Indian Private Ltd., New Delhi.
					Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons, New York.
					Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo and S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press, Yogyakarta.

5.	End of lecture, student could explain about the meaning and method used for feed digestion evaluation in ruminant and non ruminant	Feed digestion evaluation method	• The meaning of digestion
			• Digestion method measurement :
			  • *In vivo* (indicator, total colektion and force feeding)
			  • *In vitro*
			  • *In sacco* (*in situ*)
				2 x 50 menit	Crampton, E.W. and L.E. Harris. 1969. Applied Animal Nutrition. 2nd Ed. W.H. Freeman and Co., San Fransisco.
					Cullison, A.E. 1978. Feeds and Feeding. Animal Nutrition. Prentice Hall of Indian Private Ltd., New Delhi.
					Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons, New York.
					Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo and S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press, Yogyakarta.

6.	End of lecture, student could explain about feed nutrient balance	feed nutrient balance	• Nutrient balance • N dan C balance • Mineral balance • Energy and protein balance	2 x 50 menit	Cullison, A.E. 1978. Feeds and Feeding. Animal Nutrition. Prentice Hall of Indian Private Ltd., New Delhi. Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons, New York. Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo and S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press, Yogyakarta.
7.	End of lecture, student could explain about energy value of feedstuff	Energy value of feedstuff	• *Gross Energy* (GE), *Digestible Energy* (DE), *Metabolizable Energy* (ME), Heat Increament (HI), *Net Energy* (NE)	2 x 50 menit	Crampton, E.W. and L.E. Harris. 1969. Applied Animal Nutrition. 2nd Ed. W.H. Freeman and Co., San Fransisco. Cullison, A.E. 1978. Feeds and Feeding. Animal Nutrition. Prentice Hall of Indian Private Ltd., New Delhi. Lassiter, J.W. and H.M. Edwards. 1982. Animal Nutrition. Reston Publishing Company Inc. A Prentice-Hall Co., Reston.
					Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons, New York. Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo and S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press, Yogyakarta.
8.	End of lecture, student could compute and used energy unit	energy unit system and	• Starch Grade, Milk Grade, Futter Einhet (FE)	2 x 50	Crampton, E.W. and L.E. Harris. 1969. Applied Animal Nutrition. 2nd Ed. W.H. Freeman and Co., San Fransisco.

	system and protein balance in feed	protein balance in feed	• Total digestible nutrients (TDN) dan protein balance	menit	Cullison, A.E. 1978. Feeds and Feeding. Animal Nutrition. Prentice Hall of Indian Private Ltd., New Delhi. Soelistyono, H.S. 1976. Dasar-dasar Ilmu Makanan Ternak. Cetakan Kedua. Fakultas Peternakan Universitas Diponegoro, Semarang (Not Published).

9.	End of lecture, student could explain about feed protein evaluation	feed protein evaluation	• Protein quality measurement in ruminant • Protein quality measurement in non-ruminant	2 x 50 menit	Crampton, E.W. and L.L. Harris. 1969. Applied Animal Nutrition. 2nd Ed. W.H Freeman and Co., San Fransisco. Cullison, A.E. 1978. Feeds and Feeding. Animal Nutrition. Prentice Hall of Indiar Private Ltd., New Delhi. Lassiter, J.W. and H.M. Edwards. 1982. Animal Nutrition. Reston Publishing Company Inc. A Prentice-Hall Co., Reston. Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding 4th Ed. John Wiley & Sons, New York. Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo and S Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press Yogyakarta.

COURSE : Research Design

COURSE CODE :

CREDIT :

LECTURING AGENDA UNIT
(SAP)

Subject Studied : RESEARCH DESIGN
Code number :
Session Duration : 100 minutes x 1 session
Session : 1

A. Instructional Objective :

1. General : After following this course, student will be able to explain the definition of research
2. Specific : After following this course, student will be able to explain and calculate the scientific truth, the definition of research, the function, classification, and the importance of research

B. Major Topic :

1. Preface

C. Minor Topic :

1. Human's passion to reveal the secret of nature
2. The scientific truth
3. The definition of research
4. The function, classification, and importance of research

D. Teaching Activity, Media, and Teaching Aids :

Stage	Lecturer Activity	Student Activity	Media and Teaching Aids
Preface	Explain the scope of material, purpose, benefit, and introduction of research	Paying attention and writing	Blackboard and OHP
Presentation	Explain the human's passion to reveal the secret of nature, the scientific truth, the definition of research, the function, classification, and importance of research	Paying attention and writing, giving response, asking question	Blackboard and OHP
Closing	Summarize, giving questions and knowledge of the future benefits	Writing, answering question, asking question, and giving feed back	Blackboard and OHP

E. Evaluation :

Giving grades for the written answer in examination test.

F. References :

1. Kerlinger, F.N. 1973. Foundation of Behavioral Research. Second Edition. Holt Rinehart and Winstons, Inc. New York.
2. Leedy, P. 1974. Practical Research: Planning and Design. Mac Milan Publishing Co. Inc.New York.
3. Mardalis. 1995. Metode Penelitian. Suatu Pendekatan Proposal. Penerbit Bumi Aksara. Jakarta..

LECTURING AGENDA UNIT
(SAP)

Subject Studied : RESEARCH DESIGN
Code number :
Session Duration : 100 minutes x 1 session
Session : 2

A. Instructional Objective :

1. General : After following this course, student will be able to explain menjelaskan pengertian Prinsip Penelitian Ilmiah
2. Specific: Setelah mengikuti kuliah mahasiswa mampu menjelaskan dan menghitung kebenaran ilmiah, definisi penelitian, fungsi, jenis dan pentingnya penelitian

B. Major Topic :

1. Prinsip Penelitian Ilmiah

C. Minor Topic :

1. The Scientific research attitude
2. The scientific thinking pattern
3. The essence of research
4. The principles of design and report

D. Teaching Activity, Media and Teaching Aids :

Stage	Lecturer Activity	Student Activity	Media and Teaching Aids
Preface	Explain the scope of material, purpose, benefit of The Principles of Scientific Research	Paying attention and writing	Blackboard and OHP.
Presentation	Explain about the Scientific research attitude, the scientific thinking pattern, the essence of research, the principles of design and report	Paying attention and writing, giving response, asking question	Blackboard and OHP.
Closing	Summarize, giving questions and knowledge of the future benefits	Writing, answering question, asking question, and giving feed back	Blackboard and OHP.

E. Evaluation :

Giving grades for the written answer in examination test.

F. References :

1. Kerlinger, F.N. 1973. Foundation of Behavioral Research. Second Edition. Holt Rinehart and Winstons. Inc. New York.
2. Leedy, P. 1974. Practical Research: Planning and Design. Mac Milan Publishing Co. Inc.New York.
3. Mardalis. 1995. Metode Penelitian. Suatu Pendekatan Proposal. Penerbit Bumi Aksara. Jakarta.

LECTURING AGENDA UNIT
(SAP)

Subject Studied : RESEARCH DESIGN
Code number :
Session Duration : 100 minutes x 1 session
Session : 3

A. Instructional Objective :

1. General : After following this course, student will be able to explain the phase of research preparation processes
2. Specific: After following this course, student will be able to explain identify the selection and abbreviation of the problems, library study, identify, classify, and giving operational definition research variable

B. Major Topic :

1. The Research Processes phases: The phases of preparation

C. Minor Topic :

1. Identify the selection and abbreviation of the problems
2. Library study
3. Identify, classify, and giving operasional definition
4. Research variable

D. Teaching Activity, Media and Teaching Aids :

Stage	Lecturer Activity	Student Activity	Media and Teaching Aids
Preface	Explain the scope of material, purpose, benefit of this topic	Paying attention and writing	Blackboard and OHP.
Presentation	Explain about identify the selection and abbreviation of the problems, library study, identify, classify, and giving operasional definition, and research variable	Paying attention and writing, giving response, asking question	Blackboard and OHP.
Closing	Summarize, giving questions and knowledge of the future benefits	Writing, answering question, asking question, and giving feed back	Blackboard and OHP.

E. Evaluation :

Giving grades for the written answer in examination test.

F. References :

1. Mardalis. 1995. Metode Penelitian. Suatu Pendekatan Proposal. Penerbit Bumi Aksara. Jakarta.
2. Singarimbun, M. 1982. Metode Penelitian Survai. LP3ES. Jakarta.
3. Suryabrata, S. 1983. Metodologi Penelitian. Universitas Gadjah Mada, CV.Rajawali. Jakarta.
4. Hadi, S. 1975. Metode Research. Jilid I. Gadjah Mada University Press. Yogyakarta.

LECTURING AGENDA UNIT
(SAP)

Subject Studied : RESEARCH DESIGN
Code number :
Session Duration : 100 minutes x 1 session
Session : 4

A. Instructional Objective :

1. General : After following this course, student will be able to explain the phase of research implementation processes
2. Specific : After following this course, student will be able to select/ develop data instrument collector, composing research design, determining sample, collecting data, tabulating and analysis data, interpretation the result of analysis, and composing the report

B. Major Topic :

1. The Research Processes phases: The phases of implementation

C. Minor Topic :

1. Selection/ developing the tools to collect data
2. Composing research design
3. Determining sample
4. Collecting data
5. Tabulating and analysis data
6. Interpretation the result of analysis
7. Composing the report

D. Teaching Activity, Media and Teaching Aids :

Stage	Lecturer Activity	Student Activity	Media and Teaching Aids
Preface	Explain the scope of material, purpose, benefit of this topic	Paying attention and writing	Blackboard and OHP.
Presentation	Explain about selection/ developing the tools to collect data, composing research design, determining sample, collecting data, tabulating and analysis data interpretation the result of analysis composing the report	Paying attention and writing, giving response, asking question	Blackboard and OHP.
Closing	Summarize, giving questions and knowledge of the future benefits	Writing, answering question, asking question, and giving feed back	Blackboard and OHP.

E. Evaluation :

Giving grades for the written answer in examination test.

F. References :

1. Mardalis. 1995. Metode Penelitian. Suatu Pendekatan Proposal. Penerbit Bumi Aksara. Jakarta.
2. Singarimbun, M. 1982. Metode Penelitian Survai. LP3ES. Jakarta.
3. Suryabrata, S. 1983. Metodologi Penelitian. Universitas Gadjah Mada, CV.Rajawali. Jakarta.
4. Hadi, S. 1975. Metode Research. Jilid I. Gadjah Mada University Press. Yogyakarta.

LECTURING AGENDA UNIT
(SAP)

Subject Studied : RESEARCH DESIGN
Code number :
Session Duration : 100 minutes x 1 session
Session : 5

A. Instructional Objective :

1. General : After following this course, student will be able to explain The Completely Randomized Design (CRD) and data transformation
2. Specific: After following this course, student will be able to explain the definition of basic design and treatment, randomization and the ground plan of CRD, the linear model and ANOVA of CRD, basic assumption of ANOVA, the variance homogeneity test, and several procedures of data transformation

B. Major Topic :

1. Experimental Design: Completely Randomized Design (CRD) and data transformation

Minor Topic :

1. The definition of Basic Design and Treatment
2. Randomization and the ground plan of CRD
3. The linear model and ANOVA of CRD
4. Basic assumption of ANOVA
5. The variance homogeneity test
6. Several procedures of data transformation

C. Teaching Activity, Media and Teaching Aids :

Stage	Lecturer Activity	Student Activity	Media and Teaching Aids
Preface	Explain the scope of material, purpose, benefit of this topic	Paying attention and writing	Blackboard and OHP.
Presentation	Explain about the definition of basic design and treatment, randomization and the ground plan of CRD, the linear model and ANOVA of CRD, basic assumption of ANOVA, the variance homogeneity test, several procedures of data transformation	Paying attention and writing, giving response, asking question	Blackboard and OHP.
Closing	Summarize, giving questions and knowledge of the future benefits	Writing, answering question, asking question, and giving feed back	Blackboard and OHP.

D. Evaluation :

Giving grades for the written answer in examination test.

F. References :

1. Gaspersz, V. 1991. Teknik Analisis dalam Penelitian Percobaan. Penerbit Tarsito, Bandung.
2. Gomez, K.A. and A.A. Gomez. 1984. Statisticals Procedures for Agricultural Research Second Edition. An International Rice Research Institute Book. A Wiley-interscience Publication. John Wiley & Sons. New York.
3. Steel, R.G.D. dan J.H. Torrie. 1991. Prinsip dan Prosedur Statistika Suatu Pendekatan Biometrik. Edisi ke-2 (Diterjemahkan oleh B.Sumantri). Penerbit PT.Gramedia. Jakarta.
4. Sudjana. 1980. Disain dan Analisis Eksperimen. Edisi Pertama. Penerbit Tarsito Bandung.

5. Yitnosumarto, S. 1991. Percobaan, Perancangan, Analisis dan Interpretasinya. Edisi Pertama. PT.Gramedia Pustaka Utama. Jakarta.

LECTURING AGENDA UNIT
(SAP)

Subject Studied : RESEARCH DESIGN
Code number :
Session Duration : 100 minutes x 1 session
Session : 6

A. Instructional Objective :

1. General : After following this course, student will be able to explain Multiple Comparisons and Contrast Comparisons
2. Specific: After following this course, student will be able to explain Least Significance Difference (LSD) test, Turkey test (HSD), Duncan Multiple Range Test, Qualitative treatment contrast, Quantitative treatment contrast

B. Major Topic :

1. Multiple Comparisons and Contrast Comparisons

C. Minor Topic :

1. Least Significance Difference (LSD)
2. Turkey test (HSD).
3. Duncan Multiple Range Test
4. Qualitative treatment contrast
5. Quantitative treatment contrast

D. Teaching Activity, Media and Teaching Aids :

Stage	Lecturer Activity	Student Activity	Media and Teaching Aids
Preface	Explain the scope of material, purpose, benefit of this topic	Paying attention and writing	Blackboard and OHP.
Presentation	Explain about Least Significance Difference (LSD) test, Turkey test (HSD), Duncan Multiple Range Test, Qualitative treatment contrast, Quantitative treatment contrast	Paying attention and writing, giving response, asking question	Blackboard and OHP.
Closing	Summarize, giving questions and knowledge of the future benefits	Writing, answering question, asking question, and giving feed back	Blackboard and OHP.

E. Evaluation :

Giving grades for the written answer in examination test.

F. References :

1. Gaspersz, V. 1991. Teknik Analisis dalam Penelitian Percobaan. Penerbit Tarsito, Bandung.
2. Gomez, K.A. and A.A. Gomez. 1984. Statisticals Procedures for Agricultural Research Second Edition. An International Rice Research Institute Book. A Wiley-interscience Publication. John Wiley & Sons. New York.
3. Steel, R.G.D. dan J.H. Torrie. 1991. Prinsip dan Prosedur Statistika Suatu Pendekatan Biometrik. Edisi ke-2 (Diterjemahkan oleh B.Sumantri). Penerbit PT.Gramedia. Jakarta.
4. Sudjana. 1980. Disain dan Analisis Eksperimen. Edisi Pertama. Penerbit Tarsito Bandung.
5. Yitnosumarto, S. 1991. Percobaan, Perancangan, Analisis dan Interpretasinya. Edisi Pertama. PT.Gramedia Pustaka Utama. Jakarta.

LECTURING AGENDA UNIT
(SAP)

Subject Studied : RESEARCH DESIGN
Code number :
Session Duration : 100 minutes x 2 session
Session : 7 & 8

A. Instructional Objective :

1. General : After following this course, student will be able to explain Completely Randomized Block Design (RCBD) and Latin Square Design (LSD)
2. Specific: After following this course, student will be able to explain randomization and ground plan of design, linear model and ANOVA of RCBD, variance difference test , and Latin Square Design

B. Major Topic :

1. Completely Randomized Block Design (RCBD) and Latin Square Design (LSD)

C. Minor Topic :

1. Randomization and ground plan of design
2. Linear model and ANOVA of RCBD
3. Variance difference test
4. Latin Square Design

D. Teaching Activity, Media and Teaching Aids :

Stage	Lecturer Activity	Student Activity	Media and Teaching Aids
Preface	Explain the scope of material, purpose, benefit of this topic	Paying attention and writing	Blackboard and OHP.
Presentation	Explain about randomization and ground plan of design, linear model and ANOVA of RCBD, variance difference test , and Latin Square Design	Paying attention and writing, giving response, asking question	Blackboard and OHP.
Closing	Summarize, giving questions and knowledge of the future benefits	Writing, answering question, asking question, and giving feed back	Blackboard and OHP.

E. Evaluation :

Giving grades for the written answer in examination test.

F. References :

1. Gaspersz, V. 1991. Teknik Analisis dalam Penelitian Percobaan. Penerbit Tarsito, Bandung.
2. Gomez, K.A. and A.A. Gomez. 1984. Statisticals Procedures for Agricultural Research Second Edition. An International Rice Research Institute Book. A Wiley-interscience Publication. John Wiley & Sons. New York.
3. Steel, R.G.D. dan J.H. Torrie. 1991. Prinsip dan Prosedur Statistika Suatu Pendekatan Biometrik. Edisi ke-2 (Diterjemahkan oleh B.Sumantri). Penerbit PT.Gramedia. Jakarta.
4. Sudjana. 1980. Disain dan Analisis Eksperimen. Edisi Pertama. Penerbit Tarsito Bandung.
5. Yitnosumarto, S. 1991. Percobaan, Perancangan, Analisis dan Interpretasinya. Edisi Pertama. PT.Gramedia Pustaka Utama. Jakarta.

LECTURING AGENDA UNIT
(SAP)

Subject Studied : RESEARCH DESIGN
Code number :
Session Duration : 100 minutes x 1 session
Session : 9

A. Instructional Objective :

1. General : After following this course, student will be able to explain Factorial Design
2. Specific: After following this course, student will be able to explain randomization and ground plan of design, linear model and ANOVA, and also variance difference test

B. Major Topic :

1. Factorial Design

C. Minor Topic :

1. Randomization and ground plan of design
2. Linear model and ANOVA
3. Variance difference test

D. Teaching Activity, Media and Teaching Aids :

Stage	Lecturer Activity	Student Activity	Media and Teaching Aids
Preface	Explain the scope of material, purpose, benefit of this topic	Paying attention and writing	Blackboard and OHP.
Presentation	Explain about randomization and ground plan of design, linear model and ANOVA, and also variance difference test	Paying attention and writing, giving response, asking question	Blackboard and OHP.
Closing	Summarize, giving questions and knowledge of the future benefits	Writing, answering question, asking question, and giving feed back	Blackboard and OHP.

E. Evaluation :

Giving grades for the written answer in examination test.

F. References :

1. Gaspersz, V. 1991. Teknik Analisis dalam Penelitian Percobaan. Penerbit Tarsito, Bandung.
2. Gomez, K.A. and A.A. Gomez. 1984. Statisticals Procedures for Agricultural Research Second Edition. An International Rice Research Institute Book. A Wiley-interscience Publication. John Wiley & Sons. New York.
3. Steel, R.G.D. dan J.H. Torrie. 1991. Prinsip dan Prosedur Statistika Suatu Pendekatan Biometrik. Edisi ke-2 (Diterjemahkan oleh B.Sumantri). Penerbit PT.Gramedia. Jakarta.
4. Sudjana. 1980. Disain dan Analisis Eksperimen. Edisi Pertama. Penerbit Tarsito Bandung.
5. Yitnosumarto, S. 1991. Percobaan, Perancangan, Analisis dan Interpretasinya. Edisi Pertama. PT.Gramedia Pustaka Utama. Jakarta.

LECTURING AGENDA UNIT
(SAP)

Subject Studied : RESEARCH DESIGN
Code number :
Session Duration : 100 minutes x 1 session
Session : 10

A. Instructional Objective :

1. General : After following this course, student will be able to explain Split Plot Design
2. Specific: After following this course, student will be able to explain randomization and ground plan of design, linear model and ANOVA, and also variance difference test

B. Major Topic :

1. Split Plot Design

C. Minor Topic :

1. Randomization and ground plan of design
2. Linear model and ANOVA
3. Variance difference test

D. Teaching Activity, Media and Teaching Aids :

Stage	Lecturer Activity	Student Activity	Media and Teaching Aids
Preface	Explain the scope of material, purpose, benefit of this topic	Paying attention and writing	Blackboard and OHP.
Presentation	Explain about randomization and ground plan of design, linear model and ANOVA, and also variance difference test	Paying attention and writing, giving response, asking question	Blackboard and OHP.
Closing	Summarize, giving questions and knowledge of the future benefits	Writing, answering question, asking question, and giving feed back	Blackboard and OHP.

E. Evaluation :

Giving grades for the written answer in examination test.

F. References :

1. Gaspersz, V. 1991. Teknik Analisis dalam Penelitian Percobaan. Penerbit Tarsito, Bandung.
2. Gomez, K.A. and A.A. Gomez. 1984. Statisticals Procedures for Agricultural Research Second Edition. An International Rice Research Institute Book. A Wiley-interscience Publication. John Wiley & Sons. New York.
3. Steel, R.G.D. dan J.H. Torrie. 1991. Prinsip dan Prosedur Statistika Suatu Pendekatan Biometrik. Edisi ke-2 (Diterjemahkan oleh B.Sumantri). Penerbit PT.Gramedia. Jakarta.
4. Sudjana. 1980. Disain dan Analisis Eksperimen. Edisi Pertama. Penerbit Tarsito Bandung.
5. Yitnosumarto, S. 1991. Percobaan, Perancangan, Analisis dan Interpretasinya. Edisi Pertama. PT.Gramedia Pustaka Utama. Jakarta.

LECTURING AGENDA UNIT
(SAP)

Subject Studied : RESEARCH DESIGN
Code number :
Session Duration : 100 minutes x 1 session
Session : 11

A. Instructional Objective :

1. General : After following this course, student will be able to explain Field Research Design: purpose, sampling, and measurement scale
2. Specific: After following this course, student will be able to explain random, purposive, stratification, proportional, multi stage, and measurement scale: Nominal, ordinal, interval, ratio

B. Major Topic :

1. Field Research Design: purpose, sampling, and measurement scale.

C. Minor Topic :

1. Random
2. Purposive
3. Stratification
4. Proportional
5. Multi stage
6. Measurement scale: Nominal, ordinal, interval, ratio

D. Teaching Activity, Media and Teaching Aids :

Stage	Lecturer Activity	Student Activity	Media and Teaching Aids
Preface	Explain the scope of material, purpose, benefit of this topic	Paying attention and writing	Blackboard and OHP.
Presentation	Explain about random, purposive, stratification, proportional, multi stage, and measurement scale: Nominal, ordinal, interval, ratio	Paying attention and writing, giving response, asking question	Blackboard and OHP.
Closing	Summarize, giving questions and knowledge of the future benefits	Writing, answering question, asking question, and giving feed back	Blackboard and OHP.

E. Evaluation :

Giving grades for the written answer in examination test.

F. References :

1. Mardalis. 1995. Metode Penelitian. Suatu Pendekatan Proposal. Penerbit Bumi Aksara. Jakarta.
2. Singarimbun, M. 1982. Metode Penelitian Survai. LP3ES. Jakarta.
3. Suryabrata, S. 1983. Metodologi Penelitian. Universitas Gadjah Mada, CV.Rajawali. Jakarta.
4. Hadi, S. 1975. Metode Research. Jilid I. Gadjah Mada University Press. Yogyakarta.

LECTURING AGENDA UNIT
(SAP)

Subject Studied : RESEARCH DESIGN
Code number :
Session Duration : 100 minutes x 1 session
Session : 12

A. Instructional Objective :

1. General : After following this course, student will be able to explain Different μ Analysis
2. Specific: After following this course, student will be able to explain t test: 1 sample, paired sample, independent

B. Major Topic :

1. Different μ Analysis

C. Minor Topic :

1. t test: 1 sample, paired sample, independent

D. Teaching Activity, Media and Teaching Aids :

Stage	Lecturer Activity	Student Activity	Media and Teaching Aids
Preface	Explain the scope of material, purpose, benefit of this topic	Paying attention and writing	Blackboard and OHP.
Presentation	Explain about t test: 1 sample, paired sample, independent	Paying attention and writing, giving response, asking question	Blackboard and OHP.
Closing	Summarize, giving questions and knowledge of the future benefits	Writing, answering question, asking question, and giving feed back	Blackboard and OHP.

E. Evaluation :

Giving grades for the written answer in examination test.

F. References :

1. Dajan, A. 1996. Pengantar Metode Statistika. Jilid I. Cetakan ke-18. Penerbit PT.Pustaka LP3ES, Jakarta.
2. Dajan, A. 1996. Pengantar Metode Statistika. Jilid II. Cetakan ke-18. Penerbit PT.Pustaka LP3ES, Jakarta.
3. Dixon, W.J. dan F.J. Massey, Jr. 1997. Pengantar Analisis Statistik. Cetakan ke-2. Diterjemahkan oleh: Sri Kustamtini S. dan Zanzawi S. Gadjah Mada University Press, Yogyakarta.
4. Ostle, B. 1963. Statistics in Research. 2nd Ed. The Iowa State University. Press. Ames.
5. Siegel, S. 1994. Statistik Non Parametrik Untuk Ilmu – Ilmu Sosial. PT. Gramedia, Jakarta.
6. Snedecor, G.W. and W.G. Cochran. 1967. Statisticals Methods. Sixth Edition. Oxford & IBH Publishing Co. Calcutta, Bombay, New Delhi.
7. Sudjana. 1975. Metode Statistika. Cetakan ke-1. Penerbit Tarsito. Bandung.
8. .Walpole, R.E. 1988. Pengantar Statistika. Cetakan ke-3. Diterjemahkan oleh: B.Sumantri. Penerbit PT.Gramedia, Jakarta..

LECTURING AGENDA UNIT
(SAP)

Subject Studied : RESEARCH DESIGN
Code number :
Session Duration : 100 minutes x 1 session
Session : 13

A. Instructional Objective :

1. General : After following this course, student will be able to explain Different Median Analysis
2. Specific: After following this course, student will be able to explain U-test, W-test, Kruskal-Wallis test and Friedman test.

B. Major Topic :

1. Different Median Analysis

C. Minor Topic :

U-test, W-test, Kruskal-Wallis test and Friedman test

D. Teaching Activity, Media and Teaching Aids :

Stage	Lecturer Activity	Student Activity	Media and Teaching Aids
Preface	Explain the scope of material, purpose, benefit of this topic	Paying attention and writing	Blackboard and OHP.
Presentation	Explain about U-test, W-test, Kruskal-Wallis test and Friedman test	Paying attention and writing, giving response, asking question	Blackboard and OHP.
Closing	Summarize, giving questions and knowledge of the future benefits	Writing, answering question, asking question, and giving feed back	Blackboard and OHP.

E. Evaluation :

Giving grades for the written answer in examination test.

F. References :

1. Dajan, A. 1996. Pengantar Metode Statistika. Jilid I. Cetakan ke-18. Penerbit PT.Pustaka LP3ES, Jakarta.
2. Dajan, A. 1996. Pengantar Metode Statistika. Jilid II. Cetakan ke-18. Penerbit PT.Pustaka LP3ES, Jakarta.
3. Dixon, W.J. dan F.J. Massey, Jr. 1997. Pengantar Analisis Statistik. Cetakan ke-2. Diterjemahkan oleh: Sri Kustamtini S. dan Zanzawi S. Gadjah Mada University Press, Yogyakarta.
4. Ostle, B. 1963. Statistics in Research. 2nd Ed. The Iowa State University. Press. Ames.
5. Siegel, S. 1994. Statistik Non Parametrik Untuk Ilmu – Ilmu Sosial. PT. Gramedia, Jakarta.
6. Snedecor, G.W. and W.G. Cochran. 1967. Statisticals Methods. Sixth Edition. Oxford & IBH Publishing Co. Calcutta, Bombay, New Delhi.
7. Sudjana. 1975. Metode Statistika. Cetakan ke-1. Penerbit Tarsito. Bandung.
8. .Walpole, R.E. 1988. Pengantar Statistika. Cetakan ke-3. Diterjemahkan oleh: B.Sumantri. Penerbit PT.Gramedia, Jakarta..

LECTURING AGENDA UNIT
(SAP)

Subject Studied : RESEARCH DESIGN
Code number :
Session Duration : 100 minutes x 1 session
Session : 14

A. Instructional Objective :

1. General : After following this course, student will be able to explain Regression Analysis
2. Specific: After following this course, student will be able to explain Regression equations and t/ F test

B. Major Topic :

1. Regression Analysis

C. Minor Topic :

1. Regression equations and t/ F test

D. Teaching Activity, Media and Teaching Aids :

Stage	Lecturer Activity	Student Activity	Media and Teaching Aids
Preface	Explain the scope of material, purpose, benefit of this topic	Paying attention and writing	Blackboard and OHP.
Presentation	Explain about Regression equations and t/ F test	Paying attention and writing, giving response, asking question	Blackboard and OHP.
Closing	Summarize, giving questions and knowledge of the future benefits	Writing, answering question, asking question, and giving feed back	Blackboard and OHP.

E. Evaluation :

Giving grades for the written answer in examination test.

F. References :

1. Dajan, A. 1996. Pengantar Metode Statistika. Jilid I. Cetakan ke-18. Penerbit PT.Pustaka LP3ES, Jakarta.
2. Dajan, A. 1996. Pengantar Metode Statistika. Jilid II. Cetakan ke-18. Penerbit PT.Pustaka LP3ES, Jakarta.
3. Dixon, W.J. dan F.J. Massey, Jr. 1997. Pengantar Analisis Statistik. Cetakan ke-2. Diterjemahkan oleh: Sri Kustamtini S. dan Zanzawi S. Gadjah Mada University Press, Yogyakarta.
4. Ostle, B. 1963. Statistics in Research. 2nd Ed. The Iowa State University. Press. Ames.
5. Siegel, S. 1994. Statistik Non Parametrik Untuk Ilmu – Ilmu Sosial. PT. Gramedia, Jakarta.
6. Snedecor, G.W. and W.G. Cochran. 1967. Statisticals Methods. Sixth Edition. Oxford & IBH Publishing Co. Calcutta, Bombay, New Delhi.
7. Sudjana. 1975. Metode Statistika. Cetakan ke-1. Penerbit Tarsito. Bandung.
8. Walpole, R.E. 1988. Pengantar Statistika. Cetakan ke-3. Diterjemahkan oleh: B.Sumantri. Penerbit PT.Gramedia, Jakarta.

LECTURING AGENDA UNIT
(SAP)

Subject Studied : RESEARCH DESIGN
Code number :
Session Duration : 100 minutes x 1 session
Session : 15

A. Instructional Objective :

1. General : After following this course, student will be able to explain Correlation Analysis
2. Specific: After following this course, student will be able to explain the criteria of close relationships and the direction of relationships and also Pearson correlation and Spearman test

B. Major Topic :

1. Correlation Analysis

C. Minor Topic :

1. The criteria of close relationships and the direction of relationships
2. Pearson correlation and Spearman test

D. Teaching Activity, Media and Teaching Aids :

Stage	Lecturer Activity	Student Activity	Media and Teaching Aids
Preface	Explain the scope of material, purpose, benefit of this topic	Paying attention and writing	Blackboard and OHP.
Presentation	Explain about the criteria of close relationships and the direction of relationships and also Pearson correlation and Spearman test	Paying attention and writing, giving response, asking question	Blackboard and OHP.
Closing	Summarize, giving questions and knowledge of the future benefits	Writing, answering question, asking question, and giving feed back	Blackboard and OHP.

E. Evaluation :

Giving grades for the written answer in examination test.

F. References :

1. Dajan, A. 1996. Pengantar Metode Statistika. Jilid I. Cetakan ke-18. Penerbit PT.Pustaka LP3ES, Jakarta.
2. Dajan, A. 1996. Pengantar Metode Statistika. Jilid II. Cetakan ke-18. Penerbit PT.Pustaka LP3ES, Jakarta.
3. Dixon, W.J. dan F.J. Massey, Jr. 1997. Pengantar Analisis Statistik. Cetakan ke-2. Diterjemahkan oleh: Sri Kustamtini S. dan Zanzawi S. Gadjah Mada University Press, Yogyakarta.
4. Ostle, B. 1963. Statistics in Research. 2nd Ed. The Iowa State University. Press. Ames.
5. Siegel, S. 1994. Statistik Non Parametrik Untuk Ilmu – Ilmu Sosial. PT. Gramedia, Jakarta.
6. Snedecor, G.W. and W.G. Cochran. 1967. Statisticals Methods. Sixth Edition. Oxford & IBH Publishing Co. Calcutta, Bombay, New Delhi.
7. Sudjana. 1975. Metode Statistika. Cetakan ke-1. Penerbit Tarsito. Bandung.
8. .Walpole, R.E. 1988. Pengantar Statistika. Cetakan ke-3. Diterjemahkan oleh: B.Sumantri. Penerbit PT.Gramedia, Jakarta.

FACULTY OF ANIMAL AGRICULTURE DIPONEGORO UNIVERSITY

COURSE OUTLINE

Subject studied	:	Research Design
Code number/ SCS	:	/ 3 (2-1)
Course Outline	:	The truth of knowledge learned by the asumption of scientific method. Scientific research build on the based of rational and empirical thinking patern through systematic procedures of experimental research, field, and library study. The impelementation of scientific research need a brief plan that consist of: treatment, material, sample and analyses based on its statistics.
General Instruction	:	After following this course, student will be able to explain and use the scientific assumptions of statistics in analyzing the result of research both of observation and experimental.
Reading Source	:	1. Dajan, A. 1996. Pengantar Metode Statistika. 1st Edition. Penerbit PT.Pustaka LP3ES, Jakarta. 2. Dajan, A. 1996. Pengantar Metode Statistika. 2nd Edition. Penerbit PT.Pustaka LP3ES, Jakarta. 3. Dixon, W.J. and F.J. Massey, Jr. 1997. Pengantar Analisis Statistik. Translated by: Sri Kustamtini S. and Zanzawi S. Gadjah Mada University Press, Yogyakarta. 4. Gaspersz, V. 1991. Teknik Analisis dalam Penelitian Percobaan. Penerbit Tarsito, Bandung. 5. Gomez, K.A. and A.A. Gomez. 1984. Statisticals Procedures for Agricultural Research Second Edition. An International Rice Research Institute Book. A Wiley-interscience Publication. John Wiley & Sons. New York. 6. I.P.W.I. 1995. Modul Metodologi Riset Bisnis. Badan Penerbit I.P.W.I. Jakarta. 7. . Kerlinger, F.N. 1973. Foundation of Behavioural Research. Second Edition. Holt Rinehart and Winstons, Inc. New York. 8. Leedy, P. 1974. Practical Research: Planning and Design. Mac Milan Publishing Co. Inc.New York. 9. Mardalis. 1995. Metode Penelitian. Suatu Pendekatan Proposal. Penerbit Bumi Aksara. Jakarta. 10. Singarimbun, M. 1982. Metode Penelitian Survai. LP3ES. Jakarta. 11. Ostle, B. 1963. Statistics in Research. 2nd Ed. The Iowa State University. Press. Ames. 12. Siegel, S. 1994. Statistik Non Parametrik Untuk Ilmu – Ilmu Sosial. PT. Gramedia, Jakarta. 13. Snedecor, G.W. and W.G. Cochran. 1967. Statisticals Methods. Sixth Edition. Oxford & IBH Publishing Co. Calcutta, Bombay, New Delhi. 14. Sokal, R.R. and F.J. Rohlf. 1991. Pengantar Biostatistika. 2nd Edition. Translated by: Nasrullah and Setyono Setyo Sumarto. Penerbit Gadjah Mada University Press Yogyakarta. 15. Spiegel, M.R., I. Y. Susila and E. Gunawan. 1961. Statistik Edisi SI (Metrik). Schaum Publishing Company, Edinburg. 16. Steel, R.G.D. and J.H. Torrie. 1991. Prinsip dan Prosedur Statistika Suatu Pendekatan Biometrik. 2nd Edition. Translated by: B.Sumantri). Penerbit PT.Gramedia. Jakarta. 17. Sudjana. 1975. Metode Statistika. Penerbit Tarsito. Bandung. 18. Sudjana. 1980. Disain dan Analisis Eksperimen. 1st Edition. Penerbit Tarsito Bandung. 19. Suryabrata, S. 1983. Metodologi Penelitian. Universitas Gadjah Mada, CV.Rajawali. Jakarta. 20. Hadi, S. 1975. Metode Research. Gadjah Mada University Press. Yogyakarta. 21. Walpole, R.E. 1988. Pengantar Statistika. Translated by: B.Sumantri. Penerbit PT.Gramedia, Jakarta. 22. Yitnosumarto, S. 1991. Percobaan, Perancangan, Analisis dan Interpretasinya. PT.Gramedia Pustaka Utama. Jakarta.

No.	Specific Instruction	Major Topic	Minor Topic	Time Estimation	Reading Source
1.	After following this course, student will be able to explain the definition and importance of research.	Preface	1. Human's passion to reveal the secret of nature 2. The scientific truth 3. The definition of research 4. The function, classification, and importance of research	1 x 100 minutes	7, 8 and 9
2.	After following this course, student will be able to explain The Principles of Research	The Scientific Research Principles	1. The Scientific research attitude 2. The scientific thinking pattern 3. The essence of research 4. The principles of design and report	1 x 100 minutes	7, 8 and 9
3.	After following this course, student will be able to explain the phase of research preparation processes	The Research Processes phases: The phases of preparation	1. Identify the selection and abbreviation of the problems 2. Library study 3. Identify, classify, and giving operasional definition 4. Research variable	1 x 100 minutes	9, 10, 19 and 20
4.	After following this course, student will be able to explain the phase of research implementation processes	The Research Processes phases: The phases of implementation	1. Selection/ developing the tools to collect data 2. Composing research design 3. Determining sample 4. Collecting data 5. Tabulating and analysis data 6. Interpretation the result of analysis 7. Composing the report	1 x 100 minutes	9, 10, 19 and 20
5.	After following this course, student will be able to explain The Completely Randomized Design (CRD) and data transformation	Experimental Design: Completely Randomized Design (CRD) and data transformation	1. The definition of Basic Design and Treatment 2. Randomization and the ground plan of CRD 3. The linear model and ANOVA of CRD 4. Basic assumption of ANOVA 5. The variance homogeneity test 6. Several procedures of data transformation	1 x 100 minutes	4, 5, 16, 18 and 22
6.	After following this course, student will be able to explain Multiple Comparisons and Contrast Comparisons	Multiple Comparisons and Contrast Comparisons	1. Least Significance Difference (LSD) 2. Turkey test (HSD). 3. Duncan Multiple Range Test 4. Qualitative treatment contrast 5. Quantitative treatment contrast	1 x 100 minutes	4, 5, 16, 18 and 22

7.	After following this course, student will be able to explain Completely Randomized Block Design (RCBD) and Latin Square Design (LSD)	Completely Randomized Block Design (RCBD) and Latin Square Design (LSD)	1. Randomization and ground plan of design 2. Linear model and ANOVA of RCBD 3. Variance difference test 4. Latin Square Design	1 x 100 minutes	4, 5, 16, 18 and 22
8.		Mid-Semester		1 x 100 minutes	
9.	After following this course, student will be able to explain Factorial Design	Factorial Design	1. Randomization and ground plan of design 2. Linear model and ANOVA 3. Variance difference test	1 x 100 minutes	4, 5, 16, 18 and 22
10.	After following this course, student will be able to explain Split Plot Design	Split Plot Design	1. Randomization and ground plan of design 2. Linear model and ANOVA 3. Variance difference test	1 x 100 minutes	4, 5, 16, 18 and 22
11.	After following this course, student will be able to explain Field Research Design: aim, sampling, and measurement scale	Field Research Design: aim, sampling, and measurement scale	1. Random 2. Purposive 3. Stratification 4. Proportional 5. Multi stage 6. Measurement scale: Nominal, ordinal, interval, ratio	1 x 100 minutes	9, 10, 19 and 20
12.	After following this course, student will be able to explain Different μ Analysis	Different μ Analysis	t test: 1 sample, paired sample, independent	1 x 100 minutes	1, 2, 3, 11, 12, 13, 15, 17, 21 22
13.	After following this course, student will be able to explain Different Median Analysis	Different Median Analysis	U-test, W-test, Kruskal-Wallis test and Friedman test	1 x 100 minutes	1, 2, 3, 11, 12, 13, 15, 17 and 21
14.	After following this course, student will be able to explain Regression Analysis	Regression Analysis	Regression equations and t/ F test	1 x 100 minutes	1, 2, 3, 11, 12, 13, 15, 17 and 21
15.	After following this course, student will be able to explain Correlation Analysis	Correlation Analysis	1. The criteria of close relationships and the direction of relationships 2. Pearson correlation and Spearman test	1 x 100 minutes	1, 2, 3, 11, 12, 13, 15, 17 and 21
16.	After following this course, student will be able to implement discussion and develop the material has been given	Discussion of the assignment		1 x 100 minutes	Depend on the student

COURSE	: Statistics Method
COURSE CODE	:
CREDIT	: 3 (2-1)

FACULTY OF ANIMAL AGRICULTURE DIPONEGORO UNIVERSITY
GARIS BESAR PROGRAM PENGAJARAN

COURSE OUTLINE

Subject studied : Statistics Method
Code number/ SCS : / 3 (2-1)
Course Outline : Statistics Method explaining about methods in collecting the fact/ data, how to organize and analyze, concluding the conclusion and also the making of reasonable conclusion according to the fact and the analyses being done. Statistics Method has relationships with mathematics and Experimental Design.

General Instruction : After following this course, student will be able to explain and use Statistics Method in analyzing the result of experiment both of observational and experimental.

Reading Source :

1. Dajan, A. 1996. Pengantar Metode Statistika. 1st Edition. Penerbit PT.Pustaka LP3ES, Jakarta.
2. Dajan, A. 1996. Pengantar Metode Statistika. 2nd Edition. Penerbit PT.Pustaka LP3ES, Jakarta.
3. Dixon, W.J. and F.J. Massey, Jr. 1997. Pengantar Analisis Statistik. Being translated by: Sri Kustamtini S.and Zanzawi S. Gadjah Mada University Press, Yogyakarta.
4. Sokal R.R. and F.J. Rohlf. 1991. Pengantar Biostatistika. 2nd Edition. Being translated by: Nasrullah and Setyono Setyo Sunarto. Gadjah Mada University Press, Yogyakarta.
5. Spiegel, M.R., I. Y. Susila and E. Gunawan. 1961. Statistik Edisi SI (Metrik). Schaum Publishing Company, Edinburg.
6. Steel R.G.D. and J.H. Torrie. 1991. Prinsip and Prosedur Statistika Suatu Pendekatan Biometrik. Being translated by: B.Sumantri. Penerbit PT. Gramedia, Jakarta.
7. Sudjana. 1975. Metode Statistika. Penerbit Tarsito. Bandung.
8. Walpole, R.E. 1988. Pengantar Statistika. Being translated by: B.Sumantri. Penerbit PT. Gramedia, Jakarta.

No.	Spesific Instruction	Major Topic	Minor Topic	Time Estimation	Reading Source
1.	After following this course, student will be able to explain the definition of Biostatistics (Biometric), the developmental history of Statistics and Data in Statistics.	Preface	1. Definition of Biostatistics (Biometric) 2. The history of Statistics development 3. Data in Statistics	1 x 50 minutes	1,2,3,4,5 and 7
2.	After following this course, student will be able to explain data in Biostatistics.	Data in Biostatistics	1. Sample and Population 2. Variable in Biostatistics 3. The accuracy and precision of data 4. Frequency distribution 5. Data handling	1 x 50 minutes	1,2,3,4,5 and 7
3.	After following this course, student will be able to explain and calculating data using central tendency and dispersion.	Statistics Descriptive	1. Central tendency (mean, median and modus) 2. Statistics dispersion (range, deviation standard and coefficient of variance)	2 x 100 minutes	1,3,4,5 and 7

4.	After following this course, student will be able to explain and calculating distribution Probability Distribution.	Probability Distribution	1. Binomial Distribution 2. Poisson Distribution 3. Frequency Distribution Continuous Variable (Normal Distribution) 4. The characteristic of Normal Distribution 5. The probability calculation of Normal Distribution	2 x 100 minutes	3,4,5,6 and 7
5.	After following this course, student will be able to explain the reason and method of sampling, and also how to calculate the sampling distribution.	Sampling and Sampling Distribution	1. Sampling (definition, reason, method of sampling and the use of stratified random sampling) 2. Sampling distribution (Sampling distribution of mean and Central Limit Theorem)	1 x 100 minutes	1,3,4,5,6 and 7
6.	After following this course, student will be able to explain the definition of confidence interval and calculate the confidence interval based on sample statistic.	Confidence Interval Theory	1. The characteristic of confidence interval 2. The method of confidence interval (point and interval) 3. Confidence interval with big sample 4. Confidence interval with small sample	2 x 100 minutes	2,3,4,5,6 and 7
7.		Mid-Semester Test		1 x 100 minutes	
8.	After following this course, student will be able to explain the definition of hypothesis test and calculate hypothesis test with big sample and small ones.	Hypothesis Test	1. Error type I and type II 2. The steps of hypothesis test 3. Hypothesis test with big sample 4. Hypothesis test with small sample	2 x 100 minutes	2,3,4,5,6 and 7
9	After following this course, student will be able to calculate the normality test, variance homogeneity test, and independence test.	Chi Square Distribution	1. Variance Homogeneity Test 2. Normality Test 3. Independence Test	1 x 100 minutes	2,3,4,5,6 and 7
10.	After following this course, student will be able to calculate linear regression equations and its significance test.	Regression Analysis	1. Linear Regression Equations 2. Significance Test in Linear Regression	2 x 100 minutes	1,3,4,5,6 and 7
11.	After following this course, student will be able to calculate the coefficient of correlation.	Correlation Analysis	1. Product moment coefficient correlation	2 x 100 minutes	1,3,4,5,6 and 7

COURSE	:	Feed Matter and Rations Formulation
COURSE CODE	:	
CREDIT	:	3 (2-1)

LECTURING AGENDA UNIT

Subject Studied : Feed Matter and Rations Formulation
Code PTF 405 P
SCS 3(2-1)
Session Duration 1 x (2 x 50 minutes)
Session 1

A. Objective :
1. **General Instructional** : At the end of this course, student will be able to categorize feed matter and its nutrition contains used to compose rations and evaluate the quality of feed matter based on proximate analysis.
2. **Specific Instructional** : At the end of this course, student will be able to explain the feed problems in Indonesia, the aim in learning The Feed Matter and Rations Formulation and the interrelationships with other related field of science.

B. Major Topic : Preface

C. Minor Topic : Contract of course, definition and feed matter problems, the scope of field of science, aim in learning feed matter and rations formulation

D. Teaching Activity :

Stage	Teacher Activity	Student Activity	Media and Teaching Tools
Preface	1. Giving contract of course	Paying attention	Copy of Course contract, LCD
Presentation	2. Giving the scope of the course's material	Paying attention	LCD
	3. Definition of feed matter, feed nutrients, rations	Paying attention, asking and discussion	
	4. Explaining the problems of feed matter and rations in Indonesia	Paying attention, asking and discussion	
	5. Explaining the interrelationships with other related field of science	Paying attention, asking and discussion	

Closing	6. Giving stressing/ summarizing the result of discussion as mention on preface	Paying attention, giving feed back, and writting teacher's comments	LCD

E. Evaluation : Using work book or response card toward Student Activity in class and take home test

F. References :

1. Pond, W.G., D.C. Church, and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th Ed. John Wiley & Sons, New York.
2. Cullison, A.E. 1978. Feeds and Feeding. Animal Nutrition. Prentice Hall of Indian Private Ltd. New Delhi.
3. Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, dan S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press. Yogyakarta.

LECTURING AGENDA UNIT

Subject Studied	:	Feed Matter and Rations Formulation
Code		PTF 405 P
SCS		3(2-1)
Session Duration		2 x (2 x 50 minutes)
Session		2 and 3

A. Objective :

1. General Instructional : At the end of this course, student will be able to mention classification of feed matter both generally and internationally and able to do feed matter sampling representatively.

2. Specific Instructional : At the end of this course, student will be able to:
1. Mention correctly about Basis of Feed Matter Classification
2. Differentiate the criteria of each group/ classification
3. Do sampling of feed matter/ rations according to the good sampling technique correctly

B. Major Topic : Feed Matter Classification and Sampling

C. Minor Topic : Basis of feed matter classification, the criteria of each group, and sampling technique and the handling of forage and concentrate sample

D. Teaching Activity :

Stage	Teacher Activity	Student Activity	Media and Teaching Aids
Preface	1. Explaining about the basis condition of feed matter and rations according to the goal of farming business	Paying attention - Giving feed back	LCD, Blackboard, OHP
	2. Explaining about the importance of feed classification	Paying attention - Giving feed back	
	3. Explaining about the importance of sampling	Paying attention - Giving feed back	
Presentation	4. Several methods in classify feed matter and rations	Paying attention - Giving feed back	LCD, Blackboard, OHP

	5. Explaining feed matter grouping based on the classification methods and the implementation in rations 6. Explaining how to do sampling based on the correct sampling tehnique appropriate with the classification	Paying attention - Giving feed back Paying attention - Giving feed back	
Closing	7. Making group discussion 8. Giving the students opportunity to ask a question or having discussion with other groups	Discussion and giving response Clarify and getting agreement appropriate with the material	Discussion, LCD

E. Evaluation : Using work book or response card toward Student Activity in class and take home test

F. References :

1. Harris, L.E. 1970. Nutrition Research Techniques for Domestic and Wild Animal. Utah State University, Logan Utah.
2. Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokoesoemo, dan S. Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjah Mada University Press. Yogyakarta.
3. Jurgens, M.H. 1974. Applied Animal Feeding and Nutrition. 3rd Ed. Kendal/Hunt Publishing Co., Iowa.

FAKULTAS PETERNAKAN UNIVERSITAS DIPONEGORO

COURSE OUTLINE

Subject studied : Feed Matter and Rations Formulation

Code number/ SCS : PTF 405 P/ 3(2-1)

Course Outline : Studying the limitation in nutrition and livestock feed; the classification of feed matter and its use; testing the quality of feed matter, the principles of proximate analysis; feed supplement and rations formulation.

General Instruction : At the end of this course, student will be able to categorize feed matter and its nutrition contains used to compose rations and evaluate the quality of feed matter based on proximate analysis.

No.	Spesific Instruction	Major Topic	Minor Topic	Time Estimation	Reading Source
1.	At the end of this course, student will be able to explain the feed problems in Indonesia, the aim in learning The Feed Matter and Rations Formulation and the interrelationships with other related field of science.	Preface	• Contract of course • Definition and Feed Matter Problems • The scope of field of science • Aim in learning Feed Matter and Rations Formulation	2x50 minutes	Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. Ed. 4th John Wiley & Sons, New York. Cullison, A.E. 1978. Feed and Feeding. Animal Nutrition Prentice Hall of Indian Private Ltd. New Delhi. Tillman, A.D., H. Hartadi, S.Reksohadiprodjo, S. Prawirokusumo and Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjahmada University Press. Yogyakarta.
2.	At the end of this course, student will be able to mention classification of feed matter both generally and internationally and able to do feed matter sampling representatively.	Feed Matter Classification and Sampling	• Basis of Feed Matter Classification • The criteria of each group • Sampling technique and the handling of forage and concentrate sample	4x50 minutes	Harris, L.E. 1970. Nutrition Research Techniques for Domestic and Wild Animal. Utah State University, Logan, Utah, USA 2.Tillman, A.D.,H. Hartadi, S.Reksohadiprodjo, S.Prawirokusumo and S.Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjahmada University Press. Yogyakarta. Jurgens, M.H. 1974. Applied Animal Feeding and Nutrition. 3rd Edition. Kendal/Hunt Publishing Co. Iowa, USA
3.	At the end of this course, student will	Testing The Quality of Feed	• The aim and methods		AOAC. 1970. Official Methods of Analysis of The

No.	Spesific Instruction	Major Topic	Minor Topic	Time Estimation	Reading Source
	be able to explain the methods of feed quality physically and chemically and also able to do proximate analysis.	Matter	• Testing technique and procedures • The factors that influence feed quality • Information about Feed Matter Analysis Table	6x50 minutes	Association of Official Agricultural Chemists. Washington DC, USA. Harris, L.E. 1970. Nutrition Research Techniques for Domestic and Wild Animal. Utah State University, Logan, Utah, USA. PCAARD. 1987. The Philipines Recommends for Livestocks Feed Formulation. Technical Bulletin No. 64. PCAARD, Los Banos
4.	At the end of this course, student will be able to explain the limitation and mention the plants and animal feed both conventional and in conventional	Plants and Animal Feed Matter	• Conventional Plants and Animal Feed Matter • In conventional Plants and Animal Feed Matter	4x50 minutes	Koloman Bod'a. 1990. Non Conventional Feedstuffs in The Nutrition of Farm Animal. Development in Animal and Veterinary Science. 23. Elsevier Science Publishing Company. Inc. New York. Tillman, A.D.,H. Hartadi, S.Reksohadiprodjo,S.Prawirokusumo and S.Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjahmada University Press. Yogyakarta.
5.	At the end of this course, student will be able to explain and mention several anti quality factors on feed matter	Anti quality factors on feed matter	• The classification of anti quality factors on feed matter • The limitation in using feed matter contains anti quality factors in rations formulation	2x50 minutes	Cullison, A.E. 1978. Feed and Feeding. Animal Nutrition Prentice Hall of Indian Private Ltd. New Delhi. Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th. Edition. John Wiley & Sons, New York. Tilden Wayne Perry. 1982. Feed Formulation. 4th. Edition. The Interstate Printers and Publisers. Inc. Andville. Illinois.
	At the end of this course, student will be able to explain and mention feed supplements and also use it both nutritive and non nutritive	Feed Supplements	• Nutritive feed supplements • Non-nutritive feed supplements • Function and the doses of using	2x50 minutes	Cullison, A.E. 1978. Feed and Feeding. Animal Nutrition Prentice Hall of Indian Private Ltd. New Delhi. Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. 4th. Edition. John Wiley & Sons, New York. Tilden Wayne Perry. 1982. Feed Formulation. 4th. Edition. The Interstate Printers and Publisers. Inc.

FAKULTAS PETERNAKAN UNIVERSITAS DIPONEGORO

COURSE OUTLINE

No.	Spesific Instruction	Major Topic	Minor Topic	Time Estimation	Reading Source
					Andville. Illinois.
6.	At the end of this course, student will be able to mention and explain the pre requirements of feed matter selection and also explain several methods of rations formulation according to the purpose of animal husbandry business	Basis of Rations Formulation	• Basis of feed matter selection • Methods in rations formulation • Trial and error method • Diagonal method (Pearson's square method) • Linear programming method	12x50 minutes	Cullison, A.E. 1978. Feed and Feeding. Animal Nutrition Prentice Hall of Indian Private Ltd. New Delhi. Pond, W.G., D.C. Church and K.R. Pond. 1995. Basic Animal Nutrition and Feeding. Ed. 4th John Wiley & Sons, New York. Tillman, A.D.,H. Hartadi, S.Reksohadiprodjo, S.Prawirokusumo and S.Lebdosoekojo. 1998. Ilmu Makanan Ternak Dasar. Gadjahmada University Press. Yogyakarta Tilden Wayne Perry. 1982. Feed Formulation. 4th. Edition. The Interstate Printers and Publisers. Inc. Andville. Illinois.

COURSE	: Forage Crops
COURSE CODE	:
CREDIT	: 3 (2-1)

ANIMAL SCIENCE FACULTY – DIPONEGORO UNIVERSITY
COURSE OUTLINE

Course : Forage Crops
Code number/credit : ---------- / 3(2-1)
Course Outline : Mastering forage science for the production of forage and seeds (discuss about the adaptation, distribution, systematic, morphology, identification, physiology, reproduction, cultivation of forage crops).

General Instruction : After finishing this course, student will be able to understand and explain correctly about the adaptation and distribution, systematics, morphology, identification, physiology, reproduction and cultivation of forage crops

References :

1. Crowder, L. V. And H. R. Chheda. 1982. Tropical Grasslad Husbandry. Lonngman Group Ltd, London.
2. Humphreys, L. R. 1980.a Tropical Pasture and Fodder Crops. 2nd Ed., ITAS, Longman Group Ltd., London
3. Humphreys, L. R. 1980.b A Guide to Better pasture for the Tropics and Subtropics. 4th. Ed. Wright Stephenson and Co Pty. Ltd. Australia.
4. McIlroy, R. L. 1976. Pengantar Budidaya Padang Rumput Tropika. Pradnya Paramita, Jakarta.
5. Reksohadiprodjo, S. 1981. Produksi Tanaman Hijauan Makanan Ternak Tropik. Bagian Penerbitan Fakultas Ekonomi UGM, Yogyakarta.
6. Whiteman, P. C. 1980. Tropical pasture Science. Oxford University Press, London.

No.	Spesific Instruction	Topic	Sub Topic	Duration	Reference
1.	After finishing this lecture, student will be able to explain correctly about the roles of forage and its production,principle	Introduction	1. Forage crops 2. The role of forage 3. Production process principle	2 x 50 minute	L.R. Humphreys (1980) a pp. 7-12
2.	After finishing this lecture, student will be able to explain correctly about adaptation and distribution of forage crops	Adaptation and distribution of forage crops	1. Adaptation of forage crops 2. Distribution of forage crops	4 x 50 minute	R.J. Mc Ilroy (1976) pp 32-55 L.R. Humphreys (1980) a pp. 1-6
3.	After finishing this lecure, student will be able to explain correctly about systematics and morphology of grasses and legumes	Botany of grasses and legumes	1. Systematics of grasses and legumes 2. Morphology of grasses and legumes	4 x 50 minute	L.V. Crowder and Chehda (1980) pp. 47-62

4.	After finishing this lecure, student will be able to explain correctly about characteristic and adaptation of important types of grasses and legumes as forage crops	Grasses and legumes	1. Forage grasses 2. Forage legumes	4 x 50 minute	R.J. Mc Ilroy (1976) pp. 21-31 L.R. Humphreys (1980) b pp. 24-79
5.	Test			2 x 50 minute	
6.	After finishing this lecture, student will be able to explain correctly physiology of forage crops, the effect of environment for forage crop growth	Physiology of forage crops and environment effect for forage crop growrh	1.Physiology of forage crops 2.The edaphic environment 3.The climatic environment	3 x 50 minute	L.V. Crowder and H.R. Chheda (1982)pp.63-83 G.O. Mott and Popenoe (1977) pp. 157-187
7.	After finishing this lecture, student will be able to explain correctly about forage cultivation technique to build a forage crop land	Basics of making forage crop land	1. Land Preparation 2. Planting material 3. Forage cultivation	4 x 50 minute	L.R. Humphreys (1980) a pp 57-78 L.R. Humphreys (1980) b pp. 10-13
8.	After finishing this course, student will be able to explain correctly forage crop utilisation and take care of forage crop land	The usage and caring of forage crop land	1. Defoliation principle 2. Types of usage 3. The caring of the soil's fertility	4 x 50 minute	R.J. Mc Ilroy (1976) pp 73-89, 114-116 L.R. Humphreys (1980) b pp. 14-21

LECTURINGAGENDA UNIT

Course : Forage Crops
Code Course : --------- / 3 (2-1)
Credit : 3 (three)
Duration : 2 x 50 minute
Session : I

A. Purpose

1. General Instruction
   After finishing this course, student will be able to understand and explain correctly about adaptation and distribution, systematics, morphology, identification, physiology, reproduction and cultivation of forage crops
2. Specific Instruction
   After finishing this lecture, student will be able to understand and explain correctly about the role of forage and its production principle.

B. Topics : Introduction

C. Sub Topics

1. Forage crops
2. The role of forage crops
3. Production process principle

D. Teaching Activity

	Lecturer Activity		Student Activity	Media and teaching aids
Preface	1.	Explain the topics in first session	Paying attention	-
	2.	Explain the benefit of studying forage crops	Paying attention	-
	3.	Explain general and specific instruction in the first session	Paying attention	-
Content	4.	Explain definition of forage crops		OHP or LCD
		a. Ask the sudent about forage crops	Answer the question	White board
		b. Discuss student answer		
		c. Explain the benefit of studying forage crops		
	5.	Explain the role of forage crops in animal production		OHP or LCD
		a. Ask the student and discuss the answer of forage crops role	Discuss the answers	White board
		b. Give clues to student about the role of forage crop in animal production	Paying attention	OHP IFP
	6.	Explain production process of forage crops		OHP or LCD
		a. Ask the student and discuss the answer of forage crops role	Discuss the answer	White board
		b. Explain the benefit of will be able to understand and explaining forage crops production process	Paying attentiom	OHP

Closing	7.	Closing first session			
		a.	Ask the student to summarize the lecture content	Give the answer	White board
		b.	Give time to student question	Ask question	
		c.	Explain overview the next lecture	Paying attention	OHP

E. Evaluation

1. Check list and qiuz

F. Reference

. Humphreys, L. R. 1980.a Tropical Pasture and Fodder Crops. 2nd Ed., ITAS, Longman Group td., London

LECTURINGAGENDA UNIT

Course : Forage Crops
Code Course : --------- / 3 (2-1)
Credit : 3 (three)
Duration : 4 x 50 minute
Session : 2 and 3

A. Purpose

1. General Instruction
   After finishing this course, student will be able to understand and explain correctly about adaptation and distribution, systematics, morphology, identification, physiology, reproduction and cultivation of forage crops
2. Specific Instruction
   After finishing this lecture, student will be able to explain correctly about adaptation and distribution of forage crops

B. Topics : Adaptation and distribution of forage crops

C. Sub Topics

1. Adaptation of forage crops
2. Distribution of forage crops

D. Teaching Activity

	Lecturer Activity			Student Activity	Media and teaching aids
Preface	1.	Explain the topics in second and third session		Paying attention	-
	2.	Explain general and specific instruction in the second and third session		Paying attention	-
Content	3.	Explain adaptation of forage crops			OHP or LCD
		a.	Ask the sudent about forage crops aadaptation	Answer the question	White board

		b.	Discuss student answer		
	4.	Explain the distribution of forage crops in world			OHP or LCD
		a.	Ask the student and discuss the answer of forage crops distribution	Discuss the answers	White board
		b.	Give clues to student about the adaptation and distribution of forage crop in world	Paying attention	OHP
Closing	5.	Closing first session			
		a.	Ask the student to summarize the lecture content	Give the answer	White board
		b.	Give time to student question	Ask question	
		c.	Explain overview the next lecture	Paying attention	OHP

E. Evaluation

1. Check list and qiuz

F. References

Humphreys, L. R. 1980.a Tropical Pasture and Fodder Crops. 2nd Ed., ITAS, Longman Group Ltd., London

McIlroy, R. L. 1976. Pengantar Budidaya Padang Rumput Tropika. Pradnya Paramita, Jakarta.

LECTURINGAGENDA UNIT

Course : Forage Crops
Code Course : --------- / 3 (2-1)
Credit : 3 (three)
Duration : 4 x 50 minute
Session : 4, 5

A. Purpose

1. General Instruction
   After finishing this course, student will be able to understand and explain correctly about adaptation and distribution, systematics, morphology, identification, physiology, reproduction and cultivation of forage crops
2. Specific Instruction
   After finishing this lecure, student will be able to explain correctly about systematics and morphology of grasses and legumes

B. Topics : Botany of grasses and legumes

C. Sub Topics

1. Systematics of grasses and legumes
2. Morphology of grasses and legumes

D. Teaching Activity

	Lecturer Activity		Student Activity	Media and teaching aids
Preface	1.	Explain the topics in 4th and 5th session	Paying attention	-
	2.	Explain general and specific instruction in this session	Paying attention	-
Content	3.	Explain systematics of grasses		OHP or LCD
		a. Ask the sudent about grasses	Answer the question	White board
		b. Discuss student answer		
	4.	Explain systematics of legumes		OHP or LCD
		a. Ask the student and discuss the answer	Discuss the answers	White board
		b. Give clues to student about the systematics of grasses and legumes	Paying attention	OHP IFP
	5.	Explain morphology of grasses and legumes		OHP or LCD
		a. Ask the student and discuss the answer	Discuss the answer	White board
		b. Explain the benefit of will be able to understand and explaining morphology of grasses and legumes	Paying attentiom	OHP
Closing	7.	Closing 4th and 5th session		
		a. Ask the student to summarize the lecture content	Give the answer	White board
		b. Give time to student question	Ask question	
		c. Explain overview the next lecture	Paying attention	OHP

E. Evaluation

2. Check list and qiuz

F. References

Crowder, L. V. And H. R. Chheda. 1982. Tropical Grasslad Husbandry. Lonngman Group Ltd, London.

LECTURINGAGENDA UNIT

Course : Forage Crops
Code Course : --------- / 3 (2-1)
Credit : 3 (three)
Duration : 4 x 50 minute
Session : 6, 7

A. Purpose

1. General Instruction
   After finishing this course, student will be able to understand and explain correctly about adaptation and distribution, systematics, morphology, identification, physiology, reproduction and cultivation of forage crops
2. Specific Instruction
   After finishing this lecture, student will be able to explain correctly about characteristic and adaptation of important types of grasses and legumes as forage crops

B. Topics : Grasses and legumes

C. Sub Topics

1. Forage grasses
2. Forage legumes

D. Teaching Activity

	Lecturer Activity		Student Activity	Media and teaching aids
Preface	1.	Explain the topics in this session	Paying attention	-
	2.	Explain general and specific instruction in the first session	Paying attention	-
Content	3.	Explain characteristic and adaptation of grasses		OHP or LCD
		a. Ask the sudent about identification of grasses	Answer the question	White board
		b. Discuss student answer		
		c. Explain the benefit of studying characteristic and adaptation of grasses		
	4.	Explain characteristic and adaptation of legumes		OHP or LCD
		a. Ask the student and discuss the answer	Discuss the answers	White board
		b. Give clues to student about the characteristic and adaptation of legumes	Paying attention	OHP IFP
Closing	5.	Closing this session		
		a. Ask the student to summarize the lecture content	Give the answer	White board
		b. Give time to student question	Ask question	
		c. Explain overview the next lecture	Paying attention	OHP

E. Evaluation

1. Check list and qiuz

F. References

Humphreys, L. R. 1980.b A Guide to Better pasture for the Tropics and Subtropics. 4th. Ed. Wright Stephenson and Co Pty. Ltd. Australia

McIlroy, R. L. 1976. Pengantar Budidaya Padang Rumput Tropika. Pradnya Paramita, Jakarta.

Reksohadiprodjo, S. 1981. Produksi Tanaman Hijauan Makanan Ternak Tropik. Bagian Penerbitan Fakultas Ekonomi UGM, Yogyakarta

LECTURINGAGENDA UNIT

Course	:	Forage Crops
Code Course	:	--------- / 3 (2-1)
Credit	:	3 (three)
Duration	:	8 x 50 minute
Session	:	8, 9, and 10

A. Purpose

1. General Instruction
   After finishing this course, student will be able to understand and explain correctly about adaptation and distribution, systematics, morphology, identification, physiology, reproduction and cultivation of forage crops
2. Specific Instruction
   After finishing this lecture, student will be able to explain correctly physiology of forage crops, the effect of environment for forage crop growth

B. Topics Physiology of forage crops and environment effect for forage crop growrh

C. Sub Topics

1 Physiology of forage crops
2. The edaphic environment
3. The climatic environment

D. Teaching Activity

	Lecturer Activity		Student Activity	Media and teaching aids
Preface	1.	Explain the topics in this session	Paying attention	-
	2.	Explain general and specific instruction in this session	Paying attention	-
Content	3.	Explain physiology of forage crops		OHP or LCD
		a. Ask the sudent about physiology of forage crops	Answer the question	White board
		b. Discuss student answer		

		c.	Explain the benefit of studying physiology of forage crops		
	4.	Explain the effect of edaphic environment on forage crops			OHP or LCD
		a.	Ask the student and discuss the answer	Discuss the answers	White board
		b.	Give clues to student about the effect of edaphic environment	Paying attention	OHP IFP
	5.	Explain the effect of climatic environment on forage crops			OHP or LCD
		a.	Ask the student and discuss the answer	Discuss the answer	White board
		b.	Explain the benefit of will be able to understand and explaining the effect of climatic environment on forage crops	Paying attentiom	OHP
Closing	6.	Closing first session			
		a.	Ask the student to summarize the lecture content	Give the answer	White board
		b.	Give time to student question	Ask question	
		c.	Explain overview the next lecture	Paying attention	OHP

E. Evaluation

1. Check list and qiuz

F. References

Crowder, L. V. And H. R. Chheda. 1982. Tropical Grasslad Husbandry. Lonngman Group Ltd, London

Humphreys, L. R. 1980.a Tropical Pasture and Fodder Crops. 2nd Ed., ITAS, Longman Group Ltd., London

LECTURINGAGENDA UNIT

Course : Forage Crops
Code Course : --------- / 3 (2-1)
Credit : 3 (three)
Duration : 4 x 50 minute
Session : 11, 12

A. Purpose

1. General Instruction
   After finishing this course, student will be able to understand and explain correctly about adaptation and distribution, systematics, morphology, identification, physiology, reproduction and cultivation of forage crops
2. Specific Instruction
   After finishing this lecture, student will be able to explain correctly forage cultivation technique to build forage crop land

B. Topics : Basics of making forage crop land

C. Sub Topics

1. Land Preparation
2. Planting material
3. Forage cultivation

D. Teaching Activity

	Lecturer Activity		Student Activity	Media and teaching aids
Preface	1.	Explain the topics in this session	Paying attention	-
	2.	Explain general and specific instruction in the first session	Paying attention	-
Content	3.	Explain land preparation for grassland	Paying attention	OHP or LCD
		a. Ask the student about how to set up grassland	Answer the question	White board
		b. Discuss student answer		
	4.	Explain forage cultivation	Paying attention	OHP or LCD
		a. Ask the student and discuss forage cultivation	Discuss the answers	White board
		b. Give clues to student about forage cultivation	Paying attention	OHP IFP
Closing	6.	Closing first session		
		a. Ask the student to summarize the lecture content	Give the answer	White board
		b. Give time to student question	Ask question	
		c. Explain overview the next lecture	Paying attention	OHP

E. Evaluation

1. Check list and qiuz

F. References

Humphreys, L. R. 1980.a Tropical Pasture and Fodder Crops. 2nd Ed., ITAS, Longman Group Ltd., London

Humphreys, L. R. 1980.b A Guide to Better pasture for the Tropics and Subtropics. 4th. Ed. Wright Stephenson and Co Pty. Ltd. Austr

LECTURINGAGENDA UNIT

Course : Forage Crops
Code Course : ---------- / 3 (2-1)
Credit : 3 (three)
Duration : 4 x 50 minute
Session : 13, 14

A. Purpose

1. General Instruction
   After finishing this course, student will be able to understand and explain correctly about adaptation and distribution, systematics, morphology, identification, physiology, reproduction and cultivation of forage crops
2. Specific Instruction
   After finishing this course, student will be able to explain correctly forage crop utilisation and take care of forage crop land

B. Topics : The usage and caring of forage crop land

C. Sub Topics

1. Types of usage
2. Defoliation principle
3. The caring of soil's fertility

D. Teaching Activity

	Lecturer Activity		Student Activity	Media and teaching aids
Preface	1.	Explain the topics in first session	Paying attention	-
	2	Explain the benefit of studying The usage and caring of forage crop land	Paying attention	-
	3.	Explain general and specific instruction in the first session	Paying attention	-
Content	4.	Explain types of usage of forage crops		OHP or LCD
		a. Ask the sudent about types of usage of forage crops	Answer the question	White board
		b. Discuss student answer		
	5.	Explain forage crop defoliation		OHP or LCD
		a. Ask the student and discuss the answer	Discuss the answers	White board
		b. Give clues to student about the defoliation of forage crop	Paying attention	OHP IFP
	6.	Explain the caring of soil's fertlity	Paying attention	OHP or LCD
		a. Ask the student and discuss the answer of renovation	Discuss the answer	White board
		b. Explain the benefit of the caring of soil's fertlity	Paying attentiom	OHP
Closing	7.	Closing first session		
		a. Ask the student to summarize the lecture content	Give the answer	White board

		b.	Give time to student question	Ask question	
		c.	Explain overview the next lecture	Paying attention	OHP

E. Evaluation

1. Check list and qiuz

F. References

Humphreys, L. R. 1980.b A Guide to Better pasture for the Tropics and Subtropics. 4th. Ed. Wright Stephenson and Co Pty. Ltd. Australia.

McIlroy, R. L. 1976. Pengantar Budidaya Padang Rumput Tropika. Pradnya Paramita, Jakarta.

COURSE	:	Agricultural Extension
COURSE CODE	:	
CREDIT	:	3(2-1)

OUTLINE OF TEACHING PROGRAM

Subject : Agricultural Extension
Code / SKS : / 3 (2 – 1) sks

Description :

Argue about the meaning, purpose and the objective of agricultural extension, education and behavioral change, communication, adoption and diffusion of innovation, method, media, material and extension tools, the planning of extension program, evaluation, government policy in extension

General Instruction :

After atending the course, students be able to understand the importance of the education process and behavioral change through communication, diffusion of innovation, using method, media and extension tools, program planning, and understand the government policy in agriculture, especially in extension program

References :

1. Anomious. 1970. Psikologi pendidikan.
2. Balai Informasi Pertanian. 1989. Pedoman pembinaan kelompok tani nelayan. Deptan. Jakarta.
3. Bloom, B.S., F. D. R Karthwohl and B. B. Masia. 1965. Taxonomi of educational objectives. New York : David McKay Co., Inc.
4. Direktorat Jenderal Peternakan. 1992. Petunjuk pelaksanaan pembinaan kelompok tani ternak. Dirjen peternakan, Deptan. Jakarta.
5. Gunardi. 1980. Dasar-dasar penyuluhan. IPB. Bogor.
6. Goldberg, A. 1985. Komunikasi kelompok, proses diskusi dan penerapannya. UI. Jakarta.
7. Havelock, R. G., 1969. Planning for innovation. Dissemination and utilization of knowledge. ISR. The University of Michigan, Ann Arbor, Michigan.
8. Hawkins, H. S., A. M. Dunn and J. W. Cary. 1982. Agricultural and livestrock extension. Vol. 2. The extension process. Canberra. AUIDP.
9. Hawkins, H. S. and Van den Ban. 1990. Agricultural extension. Co-publish in The United State with Joh Wiley and Son. Inc. New York.
10. Isbandi. 1991. Pendidikan dalam penyuluihan. FP UNDIP. Semarang.
11. Isbandi. 1992. Proses pendidikan penyuluhan. FP UNDIP. Semarang.

12. Isbandi. 1992. Pendidikan, komunikasi dan perencanaan program penyuluhan peternakan. FP UNDIP. Semarang.
13. Jalaluddin, R. 2001. Psikologi komunikasi. Penerbit PT Remaja Rosdakarya. Bandung.
14. Kartasapoetra, A. G. 1994. Teknologi penyuluhan pertanian. Penerbit Bumi Aksara. Jakarta.
15. Lionberger, H. F. 1960. Adoption of new ideas and practices. Iowa : The Iowa State Univbersity Press.
16. Mardikanto, T. 1993. Penyuluhan pembangunan pertanian. SMU Press, Surakarta.
17. Sastraatmadja, E. 1993. Penyuluhan pertanian. Falsafah, masalah dan strategi. Alamuni. Bandung.
18. Slamet, M. 1978. Penyuluhan pertanian. Kumnpulan bahan bacaan penyuluhan.. Edisi III. IPB. Bogor
19. Satmoko, S. 1996. Komunikasi penyuluhan. Diktat kuliah penyuluhan. FP UNDIP. Semarang.
20. Soedijanto, P., 1997. Media penyuluhan pertanian. Universitas Terbuka.
21. Soedijanto, P., 1999. Evaluasi penyuluhan pertanian. Universitas Terbuka.

No.	Specific Instruction	Topics	Subtopics	Duration
1.	Students be able to understand and explain the meaning of agricultural extension	The meaning of agricultural extension	▪ Agricultural development, especially in animal husbandry ▪ The relation of extension and other sciences ▪ Purpose, Objectives, function, principles, phylosophy and extension ethics	100 minutes
2.	Students be able to understand and explain the function of education related with behavioral domains	Education and behavioural domain	▪ Education and behavioral change process ▪ Types of education and their processes ▪ Behavioral domain and the phase of change	100 minutes t
3.	Students be able to understand and explain about communication, adoption, diffusion of innovation in the agricultural extension	Communication, adoption and diffusion of innovation	The definition of communication, adoption and diffusion of innovation ▪ Communication functions ▪ Adoption and diffusion of innovation processes	100 minutes
4.	Students be able to understand and explain about extension method	Extension method	▪ Meaning of extension method ▪ Types of extension metod and its practices ▪ Strategy of the use of the methods in behavioral change	200 minutes

5.	Students be able to understand and explain about extension media	Extension Media	▪ Definition of extension media ▪ Various media and their applicationa ▪ Strategy of the use of media	200 minutes
6.	Students be able to understand and explain about material, tools and education kits	Material, tools and extension kits	▪ Definiton of material, tools and extension kits ▪ Types of material, sources and the selection of materials ▪ Types of Material, tools and extension kits	200 minutes
7.	Students be able to understand and explain about extension program planning	Extension program planning	▪ Definition of extension program ▪ The formation of program planning ▪ Steps in program planning	200 minutes
8.	Students be able to understand and explain extension program evaluation	Evaluation in extension program	▪ Definition of extension program evaluation ▪ Formation of extension program evaluation	200 minutes
9.	Students be able to understand and explain government policy in extension, agriculture and food security	extension program evaluation	▪ Identifying the work's place ▪ Physical, infrastructure, institutional and human resources ▪ Organisation and Adminstration ▪ Facilities and work system	100 minutes
10.	Students recognize the practice of agricultural extension	Capita Selecta	The practice of extension programs	100 minutes

TEACHING AGENDA

Subject : **Agricultural Extension**
Code : / 3 (3–1) SKS
Duration : **12 – 14 x (2 x 1) x 100 minutes**

TEACHING AGENDA I

DESCRIPTION :

Talks about definition, meaning and objectives of extension in agriculture, related with theories of education and agricultural development

GENERAL INSTRUCTION :

After attending the class, students be able to understand the importance of educational process and behavioral change for farmers and their families

SPECIFIC INSTRUCTION

Students be able to understand and able to explain the concepts of educational process and behavioral change of the farmers

Subtopics

1. The meaning of development and agricultural development
2. The meaning of education (Formal, Non-formal dan Informal)
3. The meaning of behavioral change

Teaching activities

No.	Phases	Lecturere Activities	Students activities	Media / education kits
1.	Introduction	Explaining: The meaning of development and agricultural development The meaning of education (Formal, Non-formal dan Informal) The meaning of behavioral change	Listening and responding	Whiteboard OHP LCD
2.	Presentation			

TEACHING AGENDA II

WEEKS	TOPIC	SUBTOPIC	LECTURER
I	The meaning of extension, especially in the field of animal husbandry	▪ Agricultural development, especially in animal husbandry ▪ The relation of extension and other sciences ▪ Purpose, Objectives, function, principles, phylosophy and extension ethics	ISB
II	Types of education and behavioral domain	▪ Education and behavioral change process ▪ Types of education and their processes ▪ Behavioral domain and the phase of change	ISB
III	Communication, adoption and diffusion of innovation	The definition of communication, adoption and diffusion of innovation ▪ Communication functions ▪ Adoption and diffusion of innovation processes	ISB
IV dan V	Extension method	▪ Meaning of extension method ▪ Types of extension metod and its practices ▪ Strategy of the use of the methods in behavioral change	ISB
VI dan VII	Extension Media	▪ Definition of extension media ▪ Various media and their applicationa ▪ Strategy of the use of media	ISB
VIII	MID SEMESTER		
IX dan X	Material, and educational kit in extension	▪ Definiton of material, tools and extension kits ▪ Types of material, sources and the selection of materials ▪ Types of Material, tools and extension kits	TSE
XI dan XII	Extension Program	▪ Definition of extension program ▪ The formation of program planning ▪ Steps in program planning	TSE
XIII dan XIV	Extension program evaluation	▪ Definition of extension program evaluation ▪ Formation of extension program evaluation	TSE
XV	Government policy in agricultural extension	▪ Identifying the work's place ▪ Physical, infrastructure, institutional and human resources ▪ Organisation and Adminstration	TSE

		▪ Facilities and work system	
XVI	Capita Selecta	The practice of extension programs	TSE

KRITERIA PENILAIAN :

1. Ujian MID Semester : 30 %
2. Ujian Akhir Semester: 30 %
3. Tugas : 10 %
4. Praktikum : 30%

Jumlah : 100%

BUKU PUSTAKA :

Anomious. 1970. Psikologi pendidikan.

Balai Informasi Pertanian. 1989. Pedoman pembinaan kelompok tani nelayan. Deptan. Jakarta.

Bloom, B.S., F. D. R Karthwohl and B. B. Masia. 1965. Taxonomi of educational objectives. New York : David McKay Co., Inc.

Direktorat Jenderal Peternakan. 1992. Petunjuk pelaksanaan pembinaan kelompok tani ternak. Dirjen peternakan, Deptan. Jakarta.

Gunardi. 1980. Dasar-dasar penyuluhan. IPB. Bogor.

Goldberg, A. 1985. Komunikasi kelompok, proses diskusi dan penerapannya. UI. Jakarta.

Havelock, R. G., 1969. Planning for innovation. Dissemination and utilization of knowledge. ISR. The University of Michigan, Ann Arbor, Michigan.

Hawkins, H. S., A. M. Dunn and J. W. Cary. 1982. Agricultural and livestrock extension. Vol. 2. The extension process. Canberra. AUIDP.

Hawkins, H. S. and Van den Ban. 1990. Agricultural extension. Co-publish in The United State with Joh Wiley and Son. Inc. New York.

Isbandi. 1991. Pendidikan dalam penyuluihan. FP UNDIP. Semarang.

Isbandi. 1992. Proses pendidikan penyuluhan. FP UNDIP. Semarang.

Isbandi. 1992. Pendidikan, komunikasi dan perencanaan program penyuluhan peternakan. FP UNDIP. Semarang.

Jalaluddin, R. 2001. Psikologi komunikasi. Penerbit PT Remaja Rosdakarya. Bandung.

Kartasapoetra, A. G. 1994. Teknologi penyuluhan pertanian. Penerbit Bumi Aksara. Jakarta.

Lionberger, H. F. 1960. Adoption of new ideas and practices. Iowa : The Iowa State Univbersity Press.

Mardikanto, T. 1993. Penyuluhan pembangunan pertanian. SMU Press, Surakarta.

Sastraatmadja, E. 1993. Penyuluhan pertanian. Falsafah, masalah dan strategi. Alamuni. Bandung.

Slamet, M. 1978. Penyuluhan pertanian. Kumnpulan bahan bacaan penyuluhan.. Edisi III. IPB. Bogor

Satmoko, S. 1996. Komunikasi penyuluhan. Diktat kuliah penyuluhan. FP UNDIP. Semarang.

Soedijanto, P., 1997. Media penyuluhan pertanian. Universitas Terbuka.

Soedijanto, P., 1999. Evaluasi penyuluhan pertanian. Universitas Terbuka.

COURSE	:	ENTERPRENEURSHIP
COURSE CODE	:	
CREDIT	:	2(2-0)

COURSE OUT LINE

SUBJECT STUDIED : ENTERPRENEURSHIP
CODE NO. : MWU 109
SCS : 2(2-0)

SHORT DISCREPTION:
It is study about autonomy and share of business to perspective of entrepreneurship related to business of failure and success, to livestock enterprise especially.

GENERAL INSTRUCTION GOALS:
After joint in this lecture, student may knew and understood the role of entrepreneurship, to livestock enterprise especially, and to develop and to motivate for made business.

REFERENCES:

1. Birah Paul, Brian Clegg, 1996. business Creativity. PT Gramedia pustaka Utama, Jakarta
2. Djatmiko, D. wirausaha dan Pembangunan. CV Alfabeta, Bandung
3. Drucher, PF. 1996. Inovasi dan Kewirausahaan, Erlangga. Jakarta.
4. Geofrey G.M, et al. 1992. Kewirausahaan Teori dan Praktek Seni Manajemen no. 97. PT Pustaka Binaman Pressindo
5. Histick, R.D., Peters MP. 1995. Enterpreneurship. Irwin. Chicago.
6. Alma, B. 2000. Kewirausahaan. Penerbit Alfabeta, Bandung.
7. Wiratmo, M. 1996. pengantar kewirausahaan, kerangka Dasar memasuki Dunia Bisnis., BPFE, Yogyakarta.
8. Virgilio. V. Vitung dkk. 1988 (editor). Agribussiness Opportunities. A practical how to book on likelihood and agricultural business ventures. Agriscoope, Quezon City.
9. Longenecker J.R., C.W. Moore dan J.W. Petty. Kewirausahaan, Manajemen Usaha Kecil (terjemahan). Buku 1 dan 2. Salemba Empat, Jakarta.

NO.	SPECIFIC INSTRUCTION GOALS	TOPICS	SUB-TOPICS	TIME ESTIMATION	REFERENCES
1.	At the end of lectures, students know and can explain terms of entrepreneurship, to livestock enterprise especially.	Introduction	1. Sense and term of entrepreneurship 2. Scope based pattern of entrepreneurship 3. Entrepreneurship as culture	2x100minutes (2 times of meeting)	5, 6, 7

2.	At the end of lectures, students know and can explain the role and goals of entrepreneurship	Role and goals of entrepreneurship	1. be interested in to entrepreneurship 2. Crisis factors to start to business 3. measuring for interested business person	2x100minutes (2 times of meeting)	5, 6, 7
3.	At the end of lectures, students know and can explain how to become business person	Personalities of business person	1. Characters of business person 2. Attitude, temperament and personalities of business person	1x100minutes	5, 6, 7
4.	At the end of lectures, students know and can explain how to become entrepreneurship	To move of motivate	1. Social motivate 2. achievement 3. to rise power of motivation 4. to motivate other person	2x100minutes (2 times of meeting)	5, 6, 7
5.	At the end of lectures, students know and can explain how to identification business share	identification of business share	1. Change as innovation 2. Sources of innovation 3. Failure of business share	2x100minutes (2 times of meeting)	3
6.	At the end of lectures, students know and can explain concepts and challenge of business	The concepts and challenge of business	1. Opportunities to business 2. Reward and Challenge 3. Livestock enterprises Model	2x100minutes (2 times of meeting)	9 (Book 1)
7.	At the end of lectures, students know and can explain how to build farm enterprise	Build farm enterprise	1. New farm business 2. Family business 3. Buy farm business	2x100minutes (2 times of meeting)	9 (Book 1)
8.	At the end of lectures, students know and can explain to build consumer loyalty	Build consumer loyalty	1. Component of consumer satisfy 2. Commitment of servicing 3. Knowing consumer 4. Build product supply (make value added)	2x100minutes (2 times of meeting)	9 (Book 2)

SET OF STUDY PROGRAMS

Subject of study : Entrepreneurship
Code of Study : MWU 109
SCS : 2(2-0)
Time schedule : 2 x 100 minute
Meeting times : 1 & 2

A. GOALS
1. GIG: Student may know and understand the role and goals of entrepreneurship, to livestock enterprise especially, and develop attitude and motivate become business person.
2. SIG: At the end of lectures, students know and can explain terms of entrepreneurship, to livestock enterprise especially

B. SUB-TOPICS:
1. Sense and term of entrepreneurship
2. Scope based of entrepreneurship pattern
3. Entrepreneurship as culture

C. D. Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	Explain about : 1. Introduction of entrepreneurship to course 1 & 2 2. Competency GIG and SIG	Pay attention	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about sense and term of entrepreneurship 2. Explain Scope based of entrepreneurship pattern 3. Entrepreneurship as culture	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Closing	Opportunities to student make question and answering the question from course	Asking & Answering Discussing	Notes

Evaluation:

References:

1. Alma, B. 2000. Kewirausahaan. Penerbit Alfabeta, Bandung.
2. Histick, R.D., Peters MP. 1995. Enterpreneurship. Irwin. Chicago.
3. Wiratmo, M. 1996. pengantar kewirausahaan, kerangka Dasar memasuki Dunia Bisnis., BPFE, Yogyakarta.

SET OF STUDY PROGRAMS

Subject of study: Entrepreneurship
Code of Study: MWU 109
SCS : 2(2-0)
Time schedule : 2 x 100 minute
Meeting times : 3 & 4

GOALS

1. GIG: Student may know and understand the role and goals of entrepreneurship, to livestock enterprise especially, and develop attitude and motivate become business person.
2. SIG: At the end of lectures, students know and can explain role and goals of entrepreneurship, to livestock enterprise especially,

SUB-TOPICS:

1. Be interested in to entrepreneurship
2. Crisis factors to start to business
3. Measuring for interested business person

Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	Explain about Competency GIG and SIG	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about be interested in to entrepreneurship 2. Explain about crisis factors to start to business 3. Explain about how to measuring for interested business person	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Closing	Opportunities to student make question and answering the question from course	Asking & Answering question Discussing	Notes

Evaluation:

References:

1. Alma, B. 2000. Kewirausahaan. Penerbit Alfabeta, Bandung.
2. Histick, R.D., Peters MP. 1995. Enterpreneurship. Irwin. Chicago.
3. Wiratmo, M. 1996. pengantar kewirausahaan, kerangka Dasar memasuki Dunia Bisnis., BPFE, Yogyakarta.

SET OF STUDY PROGRAMS

Subject of study: Entreprenеurship
Code of Study: MWU 109
SCS : 2(2-0)
Time schedule : 2 x 100 minute
Meeting times : 5

GOALS

1. GIG: Student may know and understand the role and goals of entrepreneurship, to livestock enterprise especially, and develop attitude and motivate become business person.
2. SIG: At the end of lectures, students know and can explain how to be business person

SUB-TOPICS:

1. Characters of business person
2. Attitude, temperament and personalities of business person

Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	Explain about Competency GIG and SIG	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about what characters must be own by business person 2. Explain about what attitude, temperament and personalities of business person	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Closing	Opportunities to student make question and answering the question from course	Asking & Answering question Discussing	Notes

Evaluation:
Instrument used: student ability to asking and answering question from materials

References:

1. Alma, B. 2000. Kewirausahaan. Penerbit Alfabeta, Bandung.
2. Histick, R.D., Peters MP. 1995. Enterpreneurship. Irwin. Chicago.
3. Wiratmo, M. 1996. pengantar kewirausahaan, kerangka Dasar memasuki Dunia Bisnis., BPFE, Yogyakarta.

SET OF STUDY PROGRAMS

Subject of study : Entrepreneurship
Code of Study : MWU 109
SCS : 2(2-0)
Time schedule : 2 x 100 minute
Meeting times : 6 & 7

GOALS

1. GIG: Student may know and understand the role and goals of entrepreneurship, to livestock enterprise especially, and develop attitude and motivate become business person.
2. SIG: At the end of lectures, students know and can explain how become entrepreneurship

SUB-TOPICS:

1. Social motivate
2. Achievement
3. to rise power of motivation
4. to motivate other person

LEARNING AND TEACHING ACTIVITY:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	Explain about Competency GIG and SIG	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Presentation	Explain about: 1. Social motivate 2. how to achievement 3. how to rise power of motivation 4. how to motivate other person	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Closing	Opportunities to student make question and answering the question from course	Asking & Answering question Discussing	Notes

Evaluation:
Instrument used: student ability to asking and answering question from materials

References:

1. Alma, B. 2000. Kewirausahaan. Penerbit Alfabeta, Bandung.
2. Histick, R.D., Peters MP. 1995. Enterpreneurship. Irwin. Chicago.
3. Wiratmo, M. 1996. pengantar kewirausahaan, kerangka Dasar memasuki Dunia Bisnis., BPFE, Yogyakarta.

SET OF STUDY PROGRAMS

Subject of study : Entrepreneurship
Code of Study : MWU 109
SCS : 2(2-0)
Time schedule : 2 x 100 minute
Meeting times : 8 & 9

GOALS

1. GIG: Student may know and understand the role and goals of entrepreneurship, to livestock enterprise especially, and develop attitude and motivate become business person.
2. SIG: At the end of lectures, students know and can explain to identification business share

SUB-TOPICS:

1. Change as innovation
2. Sources of innovation
3. Failure of business share

LEARNING AND TEACHING ACTIVITY:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	Explain about Competency GIG and SIG	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Presentation	Explain about: 1. Change as innovation 2. Sources of innovation 3. Failure of business share	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Closing	Opportunities to student make question and answering the question from course	Asking & Answering question Discussing	Notes

Evaluation:
Instrument used: student ability to asking and answering question from materials
References:

Drucher, PF. 1996. Inovasi dan Kewirausahaan, Erlangga. Jakarta.

SET OF STUDY PROGRAMS

Subject of study : Entrepreneurship
Code of Study : MWU 109
SCS : 2(2-0)
Time schedule : 2 x 100 minute
Meeting times : 10 & 11

GOALS

1. GIG: Student may know and understand the role and goals of entrepreneurship, to livestock enterprise especially, and develop attitude and motivate become business person.
2. SIG: At the end of lectures, students know and can explain concepts and challenge of business

SUB-TOPICS:

1. Opportunities to business
2. Reward and Challenge
3. Livestock enterprises Model

LEARNING AND TEACHING ACTIVITY:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	Explain about Competency GIG and SIG	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Presentation	Explain about: 1. how to opportunities business 2. Reward and Challenge 3. Livestock enterprises Model	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Closing	Opportunities to student make question and answering the question from course	Asking & Answering question Discussing	Notes

Evaluation:
Instrument used: student ability to asking and answering question from materials
References:

Longenecker J.R., C.W. Moore dan J.W. Petty. Kewirausahaan, Manajemen Usaha Kecil (terjemahan). Buku 1. Salemba Empat, Jakarta.

SET OF STUDY PROGRAMS

Subject of study : Entrepreneurship
Code of Study : MWU 109
SCS : 2(2-0)
Time schedule : 2 x 100 minute
Meeting times : 12 & 13

GOALS

1. GIG: Student may know and understand the role and goals of entrepreneurship, to livestock enterprise especially, and develop attitude and motivate become business person.
2. SIG: At the end of lectures, students know and can explain how to build farm enterprise

SUB-TOPICS:

1. New farm business
2. Family business
3. Buy farm business

Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	Explain about Competency GIG and SIG	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Presentation	Explain about: 1. New farm business 2. Family business 3. how to buy farm business	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Closing	Opportunities to student make question and answering the question from course	Asking & Answering question Discussing	Notes

Evaluation:
Instrument used: student ability to asking and answering question from materials
References:

Longenecker J.R., C.W. Moore dan J.W. Petty. Kewirausahaan, Manajemen Usaha Kecil (terjemahan). Buku 1. Salemba Empat, Jakarta.

SET OF STUDY PROGRAMS

Subject of study : Entrepreneurship
Code of Study : MWU 109
SCS : 2(2-0)
Time schedule : 2 x 100 minute
Meeting times : 14 & 15

GOALS

1. GIG: Student may know and understand the role and goals of entrepreneurship, to livestock enterprise especially, and develop attitude and motivate become business person.
2. SIG: At the end of lectures, students know and can explain to build consumer loyalty

SUB-TOPICS:

1. Component of consumer satisfy
2. Commitment of servicing
3. Knowing consumer
4. Build product supply (make value added)

LEARNING AND TEACHING ACTIVITY:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	Explain about Competency GIG and SIG	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Presentation	Explain about: 1. Component of consumer satisfy 2. Commitment of servicing 3. How to Know consumer 4. How to build product supply (make value added)	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Closing	Opportunities to student make question and answering the question from course	Asking & Answering question Discussing	Notes

Evaluation:
Instrument used: student ability to asking and answering question from materials
References:

Longenecker J.R., C.W. Moore dan J.W. Petty. Kewirausahaan, Manajemen Usaha Kecil (terjemahan). Buku 2. Salemba Empat, Jakarta.

CONTRACT STUDY

Study Program : S1 Social Economics of Animal Husbandry
Date schedule : Thursday
Time schedule : 1 - 3 PM
Place :
Lecturer :

SHORT DISCREPTION:
It is study about autonomy and share of business to perspective of entrepreneurship related to business of failure and success, to livestock enterprise especially.

GENERAL INSTRUCTION GOALS:
After joint in this lecture, student may knew and understood the role of entrepreneurship, to livestock enterprise especially, and to develop and to motivate for made business.

SET OF COURSES PROGRAMS

Weeks	Topics	Sub-topics	Lecturer
1	Introduction	1. Sense and term of entrepreneurship 2. Scope based pattern of entrepreneurship 3. Entrepreneurship as culture	WSM
3 & 4	Role and goals of entrepreneurship	1. be interested in to entrepreneurship 2. Crisis factors to start to business 3. measuring for interested business person	WSM
5	Personalities of business person	1. Characters of business person 2. Attitude, temperament and personalities of business person	WSM
6 & 7	To move of motivate	1. Social motivate 2. achievement	
		3. to rise power of motivation 4. to motivate other person	
8	identification of business share	1. Change as innovation 2. Sources of innovation 3. Failure of business share	

9 & 10	The concepts and challenge of business	1. Opportunities to business 2. Reward and Challenge 3. Livestock enterprises Model	
13 & 14	Build farm enterprise	1. New farm business 2. Family business 3. Buy farm business	
15 & 16	Build consumer loyalty	1. Component of consumer satisfy 2. Commitment of servicing 3. Knowing consumer 4. Build product supply (make value added)	

Evaluation:
Mid-test: 50%
Last-test: 50%

REFERENCES:

1. Birah Paul, Brian Clegg, 1996. business Creativity. PT Gramedia pustaka Utama, Jakarta
2. Djatmiko, D. wirausaha dan Pembangunan. CV Alfabeta, Bandung
3. Drucher, PF. 1996. Inovasi dan Kewirausahaan, Erlangga. Jakarta.
4. Geofrey G.M, et al. 1992. Kewirausahaan Teori dan Praktek Seni Manajemen no. 97. PT Pustaka Binaman Pressindo
5. Histick, R.D., Peters MP. 1995. Enterpreneurship. Irwin. Chicago.
6. Alma, B. 2000. Kewirausahaan. Penerbit Alfabeta, Bandung.
7. Wiratmo, M. 1996. pengantar kewirausahaan, kerangka Dasar memasuki Dunia Bisnis., BPFE, Yogyakarta.
8. Virgilio. V. Vitung dkk. 1988 (editor). Agribussiness Opportunities. A practical how to book on likelihood and agricultural business ventures. Agriscoope, Quezon City.
9. Longenecker J.R., C.W. Moore dan J.W. Petty. Kewirausahaan, Manajemen Usaha Kecil (terjemahan). Buku 1 dan 2. Salemba Empat, Jakarta.

COURSE	: ECONOMICS OF FARM BUSINESS
COURSE CODE	:
CREDIT	: 2 (2-0)

COURSE OUTLINE

SUBJECT STUDIED	:	ECONOMICS OF FARM BUSINESS
CODE NUMBER/SYSTEM OF SEMESTER CREDIT	:	PTE /2 (2-0)
DESCRIPTION	:	Economics of Farm Business subject studied discuss about definition and farm business characteristic; the aspect and function of farm business; classification of farm business; financial analysis (Profit analysis, Liquid assets, Solvency) and budgeting; risk of farm businss; and the application of farm business to livestock farmers in term of cashflow analysis.
AIM OF GENERAL INSTRUCTION	:	At the end of study, the student can understand the basic of economics of farm business in particular of definition and farm business characteristic; the aspect and function of farm business; classification of farm business; financial analysis (Profit analysis, Liquid assets, Solvency) and budgeting; risk of farm businss; and the application of farm business to livestock farmers in term of cashflow analysis.
REFERENCES	:	1. Bambang Riyanto, 1984. Dasar dasar Pembelanjaan Perusahaan. BPFE. Yogyakarta 2. Madura, J. 2001. Introduction to Business. 2nd. Penerjemah S.W. R Salib. Penebit Salemba 4. Jakarta. 3. M. Fuad, Christin H, Nurlela, Sugiarto dan Y.E.F. Paulus, 2000. Pengantar Bisnis. PT Gramedia Utama. Jakarta 4. Mulia Nasution 1996. Pengantar Bisnis Rencana Pendirian pwerusahaan. Penerbit Djambatan. Jakarta 5. Murti Sumarni dan J. Soeprihanto, 2000. Pengantar Bisnis (Dasar dasar Ekonomi Perusahaan) Edisi ke -5, Liberty Yogyakarta. 6. Pandojo, H R., Irawan dan Sukanto Reksohadiprodjo. 1982. Pengantar Ekonomi Perusahaan. BPFE. Yogyakarta. 7. Soedarsono, 1994 Pengantar Ekonomi Perusahaan. Penerbit PT. Gramedia Pustaka Utama. Jakarta. 8. Swasta, B dan I Sukotjo, W. 1997. Pengantar Bisnis Modern (Pengantar Ekonomi Perusahaan Modern. Penerbit Liberty. Yogyakarta.

NO.	AIM OF SPECIFIC INSTRUCTION	TOPIC	SUB TOPIC	TIME (MNT)
1.	The student can understand and explain the subject relation to definition of business, environmental aspects of farm business, the characteristic and regulation of farm business and farm business application to the farmers	▪ Introduction ▪ The principle of farm business ▪ The scoupe of farm business	1. Definition of business and farm business 2. Application of economic principle to the livestock farmers 3. Business environment and factors influencing business 4. Characteristic, farm business regulation and scoupe of farm business 5. The economic system influencing farm business development	2 x 100 mnt
2.	The student can understand and explain the subject relation to farm business classification based on the legal and technical aspect, the opportunity and threat of farm business. Layout of farm and some factors should be considered	▪ Farm business classification based on the legal and technical-economic aspects (business, livestock, agriculture, industry, trade and services) ▪ Layout of farm and some factors should be considered	1. The legal aspect classification of farm business (PT, CV, Firma, Holding company, Trust, etc) 2. The technical and economic of farm business (business, livestock, agriculture, industry, trade and services) 3. Layout of farm and some factors should be considered	2 x 100 mnt
3.	The student can understand and explain the subject relation to management aspects and the farm business functions have been done	▪ Management aspects ▪ Farm business functions	Farm management functions : ▪ Planning ▪ Producing ▪ Marketing ▪ Financing ▪ Organising	3 x 100 mnt
4.	The student can understand and explain the subject relation to cost of production, production cost price and selling cost price and break even point (BEP)	▪ Cost of production ▪ The method of price determintion	1. Definition of cost 2. Cost of production 3. Determination of production and selling cost price and Break Even Point (BEP)	2 x 100 mnt

5.	The student can understand and explain the subject relation to budgeting, capital and analysis of financial ratios	▪ Budgeting ▪ Analysis of financial ratios	1. Budgeting 2. Sources of capital 3. Analisys of financial ratios, such as : liquid assets, solvency, profit analysis	4 x 100 mnt
6.	The student can understand and explain the subject relation to farm development and risks of farm	▪ Farm development ▪ The risks of farm	1. Farm development model 2. Risk factors and kinds of farm risk	2 x 100 mnt

SUBJECT STUDIED CONTRACT : ECONOMIC OF FARM BUSINESS (2 SCS)

STUDY PROGRAM : S-1 NUT, PROD, SOSEK, THT
DAY :
TIME :
CLASS :
LECTURER :

SYLLABUS :

Economic of Farm Business subject studied discuss about definition and farm business characteristic; the aspect and function of farm business; classification of farm business; financial analysis (Profit analysis, Liquid assets, Solvency) and budgeting; risk of farm businss; and the application of farm business to livestock farmers in term of cashflow analysis.

AIM OF GENERAL INSTRUCTION :

At the end of study, the student can understand the basic of economic of farm business in particular of definition and farm business characteristic; the aspect and function of farm business; classification of farm business; financial analysis (Profit analysis, Liquid assets, Solvency) and budgeting; risk of farm businss; and the application of farm business to livestock farmers in term of cashflow analysis.

LECTURING AGENDA UNIT

WEEK	TOPIC	SUB TOPIC	LECTURER
1, 2	1. Introduction 2. The principle of farm business 3. The scoupe of farm business	1. Definition of business and farm business 2. Application of economic principle to the livestock farmers 3. Business environment and factors influencing business 4. Characteristic, farm business regulation and scoupe of farm business 5. The economic system influencing farm business development	
3, 4	1. farm business classification based on the legal and technical aspect, 2. the opportunity and threat of farm business. 3. Layout of farm and some factors should be considered	1. The legal aspect classification of farm business (PT, CV, Firma, Holding company. Trust, etc) 2. The technical and economic of farm business (business, livestock, agriculture, industry, trade and services) 3. Layout of farm and some factors should be considered	

5, 6, 7	Management aspects and the farm business functions have been done	Farm management functions, such planning, producing, marketing, financing and organising	
8	MID SEMESTER		TEAM
9, 10	▪ Cost of production ▪ The method of price determintion	1. Definition of cost 2. Cost of production 3. Determination of production and selling cost price and Break Even Point (BEP)	
11, 12, 13, 14	budgeting, capital and analysis of financial ratios	1. Budgeting 2. Sources of capital 3. Analisys of financial ratios, such as : liquid assets, solvency, profit analysis	
15 and 16	farm development and risks of farm	1. Farm development model 2. Risk factors and kinds of farm risk	

REFERENCES :

1. Bambang Riyanto, 1984. Dasar dasar Pembelanjaan Perusahaan. BPFE. Yogyakarta
2. Madura, J. 2001. Introduction to Business. 2nd. Penerjemah S.W. R Salib. Penebit Salemba 4. Jakarta.
3. M. Fuad, Christin H, Nurlela, Sugiarto dan Y.E.F. Paulus, 2000. Pengantar Bisnis. PT Gramedia Utama. Jakarta
4. Mulia Nasution 1996. Pengantar Bisnis Rencana Pendirian pwerusahaan. Penerbit Djambatan. Jakarta
5. Murti Sumarni dan J. Soeprihanto, 2000. Pengantar Bisnis (Dasar dasar Ekonomi Perusahaan) Edisi ke -5, Liberty Yogyakarta.
6. Pandojo, H R., Irawan dan Sukanto Reksohadiprodjo. 1982. Pengantar Ekonomi Perusahaan. BPFE. Yogyakarta.
7. Soedarsono, 1994 Pengantar Ekonomi Perusahaan. Penerbit PT. Gramedia Pustaka Utama. Jakarta.
8. Swasta, B dan I Sukotjo, W. 1997. Pengantar Bisnis Modern (Pengantar Ekonomi Perusahaan Modern. Penerbit Liberty. Yogyakarta

EVALUATION :

- mid semester : 50%
- final exam : 50%

NOTE :

The evaluation of an assignment is part of mid semester or final exam

COURSE	: INTRODUCTION ECONOMICS
COURSE CODE	:
CREDIT	: 2 (2-0)

COURSE OUTLINE

SUBJECT STUDIED : INTRODUCTION ECONOMICS

CODE NUMBER/SYSTEM OF SEMESTER CREDIT : PTF 108 / 2 (2-0)

DESCRIPTION : Introduction Economics discuss relation to economics development, production and consumption, marketing, national economic welfare, economy cycle, economic policy, monetary and banking aspect.

AIM OF GENERAL INSTRUCTION : At the end of study, the student can understand to economic concept and economic development, production and consumption, marketing, national economic welfare, economy cycle, economic policy, monetary and banking aspect.

No	Aim of Specific Instruction	Topic	Sub topic	Time Estimation	References
1.	Student understand to economic introduction and economic concept, economic history, economic problems and aim of economy	Economic scoupe	1. Introduction and economic history 2. Economic problems and aim of economy	2 x 100 munite	1. Partadiredja, A. 1994. Pengantar Ekonomika. BPFE. Yogyakarta. 2. Sukirno, S. 1997. Pengantar Teori Makro Ekonomi. PT Radja Grafindo. Persada. Jakarta. 3. Sudarsono. 1983. Pengantar Ekonomi Mikro. LP3ES. Jakarta. 4. Debertin, D.L. 1986. Agricultural Production Economics. Macmillan Publishing Company. New York. 5. Bilas, R.A. 1986. Teori
2.	Student undestand to production and production process, production factors, cost of production, supply and supply elasticity	Production, production process and supply	1. production concept and production factors 2. Cost of production, supply and supply elasticity	2 x 100 munite	
3.	Student understand to utility concept and services and goods consumption utility, demand and elasticity elasticity and factors of demand influencing	Demand and consumption	1. utility concept and demand utility 2. Factors of demand influencing 3. demand elasticity	2 x 100 munite	

COURSE OUTLINE

SUBJECT STUDIED	:	INTRODUCTION ECONOMICS
CODE NUMBER/SYSTEM OF SEMESTER CREDIT	:	PTF 108 / 2 (2-0)
DESCRIPTION	:	Introduction Economics discuss relation to economics development, production and consumption, marketing, national economic welfare, economy cycle, economic policy, monetary and banking aspect.
AIM OF GENERAL INSTRUCTION	:	At the end of study, the student can understand to economic concept and economic development, production and consumption, marketing, national economic welfare, economy cycle, economic policy, monetary and banking aspect.

No	Aim of Specific Instruction	Topic	Sub topic	Time Estimation	References
1.	Student understand to economic introduction and economic concept, economic history, economic problems and aim of economy	Economic scoupe	1. Introduction and economic history 2. Economic problems and aim of economy	2 x 100 munite	1. Partadiredja, A. 1994. Pengantar Ekonomika. BPFE. Yogyakarta. 2. Sukirno, S. 1997. Pengantar Teori Makro Ekonomi. PT Radja Grafindo. Persada. Jakarta. 3. Sudarsono. 1983. Pengantar Ekonomi Mikro. LP3ES. Jakarta. 4. Debertin, D.L. 1986. Agricultural Production Economics. Macmillan Publishing Company. New York. 5. Bilas, R.A. 1986. Teori
2.	Student undestand to production and production process, production factors, cost of production, supply and supply elasticity	Production, production process and supply	1. production concept and production factors 2. Cost of production, supply and supply elasticity	2 x 100 munite	
3.	Student understand to utility concept and services and goods consumption utility, demand and elasticity elasticity and factors of demand influencing	Demand and consumption	1. utility concept and demand utility 2. Factors of demand influencing 3. demand elasticity	2 x 100 munite	

COURSE OUTLINE

SUBJECT STUDIED : **INTRODUCTION ECONOMICS**

CODE NUMBER/SYSTEM OF SEMESTER CREDIT : **PTF 108 / 2 (2-0)**

DESCRIPTION : Introduction Economics discuss relation to economics development, production and consumption, marketing, national economic welfare, economy cycle, economic policy, monetary and banking aspect.

AIM OF GENERAL INSTRUCTION : At the end of study, the student can understand to economic concept and economic development, production and consumption, marketing, national economic welfare, economy cycle, economic policy, monetary and banking aspect.

No	Aim of Specific Instruction	Topic	Sub topic	Time Estimation	References
1.	Student understand to economic introduction and economic concept, economic history, economic problems and aim of economy	Economic scoupe	1. Introduction and economic history 2. Economic problems and aim of economy	2 x 100 munite	1. Partadiredja, A. 1994. Pengantar Ekonomika. BPFE. Yogyakarta. 2. Sukirno, S. 1997. Pengantar Teori Makro Ekonomi. PT Radja Grafindo. Persada. Jakarta. 3. Sudarsono. 1983. Pengantar Ekonomi Mikro. LP3ES. Jakarta. 4. Debertin, D.L. 1986. Agricultural Production Economics. Macmillan Publishing Company. New York. 5. Bilas, R.A. 1986. Teori
2.	Student undestand to production and production process, production factors, cost of production, supply and supply elasticity	Production, production process and supply	1. production concept and production factors 2. Cost of production, supply and supply elasticity	2 x 100 munite	
3.	Student understand to utility concept and services and goods consumption utility, demand and elasticity elasticity and factors of demand influencing	Demand and consumption	1. utility concept and demand utility 2. Factors of demand influencing 3. demand elasticity	2 x 100 munite	

4.	Student understand to determine of market price, the market functions, market classification and farm business equilibrium	Marketing theory	1. market price determination 2. market functions 3. market clssification 4. farm business equilibrium	2 x 100 munite	Ekonomi Mikro. Erlangga. Jakarta.
5.	Student understand the indicators of economic growth and economic development, economic welfare and factors of economic growth determination.	National economic welfare	1. indicators of economic growth and economic development 2. welfare indicators 3. factors of economic growth determination	2 x 100 munite	6. Mangkoesoebroto, G dan Algifari. 1998. Teori Ekonomi Makro. STIE YKPN. Yogyakarta. 7.Darmawan, I. 1992. Pengantar Uang dan Perbankan. Rineka Cipta. Jakarta. 8.Simorangkir, O.P.. 2000. Pengantar Lembaga Keuangan Bank dan NonBank. Ghalia Indonesia. Jakarta.
6.	Student understand 2, 3 and 4 sectors of economic cycle and fiscal and monetery policy.	Economic cycle and economic policy.	1. the economic system of 2, 3 and 4 sectors. 2. fiscal and monetery policy.	3 x 100 munite	
7.	Student understand to the kinds and functions of money, banking and financing institution, inflation and deflation.	Banking and financing	1. the concept of money, kinds and functions of money 2. banking and financing institution 3. Inflation and dan deflation	3 x 100 munite	

SUBJECT STUDIED CONTRACT

SUBJECT STUDIED	: INTRODUCTION TO ECONOMICS
S C S	: 2 (2-0) / PTF 108
STUDY PROGRAM	: Technology of Livestock Post Harvest
DAY/TIME	: Friday / 07.00-09.00 WIB
ROOM	: E1.01
LECTURER	: Ir. Mukson, MS (MKS)* Ir. B. Mulyatno S, MS (BMS)

1. **SYLLABUS** : Introduction to Economics discuss relation to economics development,
production and consumption, marketing, economic welfare, economy cycle, economic policy, monetary and banking aspect.

AIM OF GENERAL INSTRUCTION :

At the end of study, the student can understand to economic concept and economic development, production and consumption, marketing, economic welfare, economy cycle, economic policy, monetary and banking aspect.

3. LECTURING AGENDA UNIT

Week	Topic and Sub Topic	Lecturer
1-2	Economic Scoupe 1. Introduction and economic history 2. Economic problems and aim of economy	MKS
3-4	Consumption and demand 1. utility concept and demand utility 2. factors of demand influencing 3. demand elasticity	MKS
5-6	Production, production process and supply 1. production concept and production factors 2. Cost of production, supply and supply elasticity	MKS
7	Consumer utility theory	MKS
8	Market Theory 1. market price determination 2. market functions 3. market clssification 4. farm business equilibrium	MKS
9	MID – TEST SEMESTER	TIM
10-11	Economics Welfare 1. indicators of economic growth and economic development 2. welfare indicators 3. factors of economic growth determination	BMS
12-14	Economic cycle and economic policy 1. the economic system of 2, 3 and 4 sectors. 2. fiscal and monetery policy.	BMS
15-16	Banking and Financing	BMS

	1. the concept of money, kinds and functions of money 2. banking and financing institution 3. Inflation and dan deflation	

4. REFERENCES :

a. Partadiredja, A. 1994. Pengantar Ekonomika. BPFE. Yogyakarta.
b. Sukirno S. 1995. Pengantar Teori Mikro Ekonomi. PT. Radja Grafindo Persada, Jkt.
c. Sukirno S. 1997. Pengantar Teori Makro Ekonomi, PT. Radja Grafindo Persada, Jkt.
d. Darmawan I, 1992, Pengantar Uang dan Perbankan, Rineka Cipta, Jakarta.

5. EVALUATION :

1. Assignment/problem : 10 %
2. Mid semester : 40 %
3. Final Exam : 50 %

Final Evaluation : 100 %

LECTURING AGENDA UNIT I

Subject Studied : Introduction Economic
Code of Subject : PTF 108
System of Credit Semester : 2 SCS
Time Schedule : 2 x 100 munite
Schedule of meeting : 1 and 2

A. AIM
1. Aim of General Instruction : Introduction Economics discuss relation to economics development, production and consumption, marketing, economic welfare, economy cycle, economic policy, monetary and banking aspect.
2. Aim of Specific Instruction : Student can understand and explain to the economic introduction and economic history, economic problems and aim of economy

B. Topic : Introduction and Economic scoupe

C. Sub Topic :
1. Introduction and economic history
2. Economic problems, aim and scoupe of economy

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • Introduction economics • to explain the competence of topic and sub topic • explain the lectured contract	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	1. explain the introduction and economic history 2. describe and clarify the scoupe of economy, economic problems and aim of economy	▪ give suggestion ▪ discussion ▪ written	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to present the group discussion report c. the comment from other student d. give an assignment to revise the group discussion report completed by textbook e. describe the next subject lectured	▪ presentation ▪ give comment or question related to introduction and scoupe of economic ▪ doing an assignment ▪ take not eof	▪ group report ▪ written the comment and question

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References :

- Partadiredja, A. 1992. Pengantar Ekonomika. BPFE. Yogyakarta.
- Hartowo,. 1979. Cakrawala Ekonomi. Fakultas Ekonomi UNDIP. Semarang.
- Darmawan I, 1992, Pengantar Uang dan Perbankan, Rineka Cipta, Jakarta.
- Sadono Sukirno. 1997. Pengantar Teori Makro Ekonomi

LECTURING AGENDA UNIT II

Subject Studied : Introduction Economic
Code of Subject : PTF 108
System of Credit Semester : 2 SCS
Time Schedule : 2 x 100 munite
Schedule of meeting : 3 and 4

A. AIM

1. Aim of General Instruction : Introduction Economics discuss relation to economics development, production and consumption, marketing, economic welfare, economy cycle, economic policy, monetary and banking aspect.
2. Aim of Specific Instruction : At the end of study, the student can understand and explain to factors and cost of production, product, optimizing and supply function.

B. Topic : Production and production process

C. Sub Topic :
1. production factors
2. cost of production and product
3. optimizing and supply function

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	1. to explain the competence of topic and sub topic 2. to explain the production and process	▪ take note of ▪ take note of	White board, OHP / LCD, board maker.
Presentation	Describe and explain : 1. production factors 2. cost of production and product 3. optimizing and supply function	▪ give suggestion ▪ discussion ▪ written	White board, OHP / LCD, board maker. Form of student self evaluation
The closing of the session	1. closing of session 2. randomly point toward the student to present the group discussion report 3. the comment from other student 4. give an assignment to revise the group discussion report completed by textbook or journal 5. describe the next subject lectured	▪ presentation ▪ give comment or question related to production, optimizing and supply ▪ doing an assignment ▪ take note of	▪ group report ▪ written the comment and question

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References :

- Partadiredja, A. 1992. Pengantar Ekonomika. BPFE. Yogyakarta.
- Hartowo,. 1979. Cakrawala Ekonomi. Fakultas Ekonomi UNDIP. Semarang.
- Darmawan I, 1992, Pengantar Uang dan Perbankan, Rineka Cipta, Jakarta.
- Sadono Sukirno. 1997. Pengantar Teori Makro Ekonomi

LECTURING AGENDA UNIT III

Subject Studied : Introduction Economic
Code of Subject : PTF 108
System of Credit Semester : 2 SCS
Time Schedule : 2 x 100 munite
Schedule of meeting : 5 and 6

A. AIM

1. Aim of General Instruction : Introduction Economics discuss relation to economics development, production and consumption, marketing, economic welfare, economy cycle, economic policy, monetary and banking aspect.
2. Aim of Specific Instruction : Student can understand and explain utility concept and services and goods consumption utility, demand and elasticity elasticity and factors of demand influencing

B. Topic : Consumption and demand

C. Sub Topic :
1. utility concept and demand utility
2. Value and price of goods and services
3. demand function

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	1. describe the competence of topic and sub topic 2. describe utility, consumption and demand	▪ take note of ▪ take note of	White board, OHP / LCD, board maker.
Presentation	Explain the subject lectured, such : 1. utility concept and demand utility 2. Value and price of goods and services 3. demand function	▪ give suggestion ▪ discussion for observing student capability ▪ written	White board, OHP / LCD, board maker. Form of student self evaluation
The closing of the session	1. closing of session 2. randomly point toward the student to present the group discussion report 3. the comment from other student 4. give an assignment to revise the group discussion report	▪ presentation ▪ give comment or question related to utility, consumption and demand ▪ doing an assignment ▪ take note of	▪ group report ▪ written the comment and question

	completed by textbook or journal 5. describe the next subject lectured		

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References :

- Partadiredja, A. 1992. Pengantar Ekonomika. BPFE. Yogyakarta.
- Hartowo,. 1979. Cakrawala Ekonomi. Fakultas Ekonomi UNDIP. Semarang.
- Darmawan I, 1992, Pengantar Uang dan Perbankan, Rineka Cipta, Jakarta.
- Sadono Sukirno. 1997. Pengantar Teori Makro Ekonomi

LECTURING AGENDA UNIT IV

Subject Studied : Introduction Economic
Code of Subject : PTF 108
System of Credit Semester : 2 SCS
Time schedule : 2 x 100 munite
Schedule of meeting : 7 and 8

A. AIM

1. Aim of General Instruction : Introduction to Economics discuss relation to economics development, production and consumption, marketing, economic welfare, economy cycle, economic policy, monetary and banking aspect.
2. Aim of Specific Instruction : Student understand to determine of market price, the market functions, market classification and farm business equilibrium

B. Topic : Marketing

C. Sub Topic :
1. market price determination
2. market functions
3. market clssification
4. farm business equilibrium

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	1. describe the competence of topic and sub topic 2. describe market concept and classification of market	▪ take note of ▪ take note of	White board, OHP / LCD, board maker.
Presentation	Explain the subject lectured, such : 1. market price determination 2. market functions 3. market classifications	▪ give suggestion ▪ discussion for observing student capability ▪ written	White board, OHP / LCD, board maker. Form of student self evaluation
The closing of the session	1. closing of session 2. randomly point toward the student to present the group discussion report 3. the comment from other student 4. give an assignment to revise the group discussion report completed by textbook or	▪ presentation ▪ give comment or question related to marketing concept ▪ doing an assignment ▪ take note of	▪ group report ▪ written the comment and question

	journal 5. describe the next subject lectured		

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References :

- Partadiredja, A. 1992. Pengantar Ekonomika. BPFE. Yogyakarta.
- Hartowo,. 1979. Cakrawala Ekonomi. Fakultas Ekonomi UNDIP. Semarang.
- Darmawan I, 1992, Pengantar Uang dan Perbankan, Rineka Cipta, Jakarta.
- Sadono Sukirno. 1997. Pengantar Teori Makro Ekonomi

LECTURING AGENDA UNIT V

Subject Studied : Introduction Economic

Code of Subject : PTF 108

System of Credit Semester : 2 SCS

Time Schedule : 4 x 50 munite

Schedule of meeting : 9 and 10

A. AIM

1. Aim of General Instruction : At the end of study, student can undestand and explain about national economic welfare
2. Aim of Specific Instruction : Student understand the indicators of economic growth and economic development, economic welfare and factors of economic growth determination.

B. Topic : National Economic Welfare

C. Sub Topic :
1. indicators of economic growth and economic development
2. welfare indicators
3. factors of economic growth determination

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	1. describe the competence of topic and sub topic 2. describe the nationaleconomic wlfare	▪ take note of ▪ take note of	White board, OHP / LCD, board maker.
Presentation	1. describe and explain the indicators of economic growth and economic development ▪ give an indicators of economic growth question ▪ discussion and give an aswere of the economic growth indicators 2. describe and explain the economic welfare indicators ▪ give an indicators of economic welfare question ▪ discussion and give an aswere the economic welfare indicators	▪ give suggestion ▪ discussion for observing student capability ▪ written and summary up of the economic growth and welfare and economic growth determination	White board, OHP / LCD, board maker. Form of student self evaluation

	3 describe and explain the factors of economic growth determination ▪ give question about how to determine the economic growth ▪ discussion and give an aswere of the economic growth determination		
The closing of the session	1. closing of session 2. randomly point toward the student to present the group discussion report 3. the comment from other student 4. give an assignment to revise the group discussion report completed by textbook or journal 5. describe the next subject lectured	▪ presentation ▪ give comment or question related to marketing concept ▪ doing an assignment ▪ take note of	▪ group report ▪ written the comment and question

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References :

- Partadiredja, A. 1992. Pengantar Ekonomika. BPFE. Yogyakarta.
- Hartowo,. 1979. Cakrawala Ekonomi. Fakultas Ekonomi UNDIP. Semarang.
- Darmawan I, 1992, Pengantar Uang dan Perbankan, Rineka Cipta, Jakarta.
- Sadono Sukirno. 1997. Pengantar Teori Makro Ekonomi

LECTURING AGENDA UNIT VI

Subject Studied : Introduction Economic

Code of Subject : PTF 108

System of Credit Semester : 2 SCS

Time Schedule : 6 x 50 munite

Schedule of meeting : 11,12 and 13

A. AIM

1. Aim of General Instruction : At the end of study, student can undestand and explain about economic cycle and economic policy
2. Aim of Specific Instruction : Student can understand explain the 2, 3 and 4 sectors of economic cycle and fiscal and monetery policy.

B. Topic : Economic cycle and economic policy

C. Sub Topic : 1. Economy system of the 2, 3 and 4 sectors
2. Fiscal and monetery policy.

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	1. describe the competence of topic and sub topic 2. describe the economic cycle and economic policy	▪ take note of ▪ take note of	White board, OHP / LCD, board maker.
Presentation	1. describe and explain the 2,3, and 4 sectors of economic ▪ give a question of the 2,3 and 4 economic sectors ▪ discussion, give an aswere and conclussion of the 2, 3 and 4 economic sectors 2. describe and explain thefiscal and monetery policy ▪ give a question of the fscal and monetery policy ▪ discussion and give an aswere and conclussion of the fiscal and monetery policy	▪ give suggestion ▪ discussion an simulation for observing student capability ▪ written and summary up of the 2,3 and 4 economic sector and fiscal and monetery policy	White board, OHP / LCD, board maker. Form of student self evaluation

The closing of the session	1. closing of session 2. randomly point toward the student to present the group discussion report 3. the comment from other student 4. give an assignment to revise the group discussion report completed by textbook or journal 5. describe the next subject lectured	▪ presentation ▪ give comment or question related to marketing concept ▪ doing an assignment ▪ take note of	▪ group report ▪ written the comment and question

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References :

- Mangkoesoebroto, G dan Algifari.1998. Teori Ekonomi Makro. STIE YKPN. Yogyakarta.
- Sadono Sukirno. 1997. Pengantar Teori Makro Ekonomi. PT Radja Grafindo, Persada, jakarta.

LECTURING AGENDA UNIT VII

Subject Studied : Introduction Economic

Code of Subject : PTF 108

System of Credit Semester : 2 SCS

Time Schedule : 6 x 50 munite

Schedule of meeting : 14,15 and 16

A. AIM

1. Aim of General Instruction : At the end of study, student can undestand and explain about banking and financing
2. Aim of Specific Instruction : Student understand to the kinds and functions of money, banking and financing institution, inflation and deflation.

B. Topic : Banking and financing

C. Sub Topic :
1. the concept of money, kinds and functions of money
2. banking and financing institution
3. Inflation and dan deflation

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	1. describe the competence of topic and sub topic 2. describe the banking economic financing policy	▪ take note of ▪ take note of	White board, OHP / LCD, board maker.
Presentation	1. describe and explain of the concept of money, kinds and money functions ▪ give a question of the concept, kinds and functions of money ▪ discussion, give an aswere and conclussion of the concept, kinds and functions of money 2. describe and explain the banking and financing institution ▪ give a question of the banking and financing ▪ discussion and give an aswere and conclussion of the banking and financing	▪ give suggestion ▪ discussion an simulation for observing student capability ▪ written and summary up of subject lectured such monay concept, banking and financing, inflation and deflation.	White board, OHP / LCD, board maker. Form of student self evaluation
	3. describe and explain the	▪ presentation of	

	inflation and deflation ▪ give a question of the inflation and deflation ▪ discussion and give an aswere and conclussion of the inflation and deflation	the simulation report	
The closing of the session	1. closing of session 2. randomly point toward the student to present the group discussion report 3. the comment from other student 4. give an assignment to revise the group discussion report completed by textbook or journal 5. describe the exam material	▪ presentation ▪ give comment or question related to marketing concept ▪ doing an assignment ▪ take note of	▪ group report ▪ written the comment and question

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References :

- Darmawan I, 1992, Pengantar Uang dan Perbankan, Rineka Cipta, Jakarta.
- Mangkoesoebroto, G dan Algifari.1998. Teori Ekonomi Makro. STIE YKPN. Yogyakarta.
- Partadiredja, A. 1992. Pengantar Ekonomika. BPFE. Yogyakarta.
- Sadono Sukirno. 1997. Pengantar Teori Makro Ekonomi. PT Radja Grafindo, Persada, Jakarta.
- Simorangkir, O.P.. 2000. Pengantar Lembaga Keuangan Bank dan Non Bank. Ghalia Indonesia. Jakarta.

COURSE	: FEASIBILITY STUDY AND PROJECT EVALUATION (FSPE)
COURSE CODE	:
CREDIT	: 3 (2-1)

OUTLINE COURSE

SUBJECT STUDIED	:	**FEASIBILITY STUDY AND PROJECT EVALUATION (FSPE)**
CODE NUMBER/SYSTEM OF SEMESTER CREDIT	:	PTE 308/3(2-1)
DESCRIPTION	:	Feasibility Studi and Project Evaluation (FSPE) Subject Studied discuss about farm activity proposal and farm business evaluation in part of benefit and feasible based on time value of money and investment criteria.
AIM OF GENERAL INSTRUCTION	:	• At the end of study, the student can understand and explain the component, definition and meaning of livestock FSPE • Student can understand and compose the livestock farm business FSPE proposal
BIBLIOGRAPHY	:	1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta. 2. Ellen Christina, M. Fuad, Sugiyanto dan E. Sukarno. 2002. Anggaran Perusahaan Suatu Pendekatan Praktis. PT Gramedia Pustaka Utama, Jakarta. 3. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya. 4. Indriyo Gitosudarmo dan Muhamad Najnudin. 2003. Anggaran Perusahaan Teori dan Soal Jawab. BPFE, Yogyakarta 5. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press, Jakarta. (Terjemahan) 6. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta. 7. Siswanto Sutojo. 1989. Studi Kelayakan Proyek. PT Pustaka Binaman Pressindo. Jakarta. 8. Soetrisno PH. 1995. Dasar-Dasar Evaluasi dan Manajemen Proyek. Andi Offset. Yogyakarta. 9. Suad Husnan dan Suwarsono Muhammad. 2000. Studi Kelayakan Proyek. UKPN Yogyakarta. 10. Yakob Ibrahim. 2003. Studi Kelayakan Bisnis. Rineka Cipta. Jakarta.

	Aim of Special Instruction	Topic	Sub Topic	Time Estima-tion	Bahan Pustaka
1.	Student can understand and explain the definition and meaning, benefit and scoupe of FSPE	Introduction	• Definition and meaning of Feasibility Study and Project Evaluation (FSPE) and its application for livestock farm business. • Benefit and scoupe of FSPE	100 minute	Book no. 1, 3, 5, 6, 7, 8, 9 and 10
2.	Student can understand and explain some aspects of FSPE, such technical aspect, managerial and administration aspect, commercial aspect, financial and economic aspec, legal aspect and environmental aspect	Some aspetcs of FSPE	▪ Technical aspect, ▪ Managerial and administration aspect, ▪ Commercial aspect, ▪ Financial and economic aspec, ▪ Legal aspect ▪ Environmental aspect	3 x 100 minute	Book no. 1,3.6 and 9
3.	Student can understand and explain the financial and economic aspects consist of input factors utilizing for livestock farm business, livestock product, opportunity cost and, the differences between financial and economic analysis.	▪ Financial and economic aspect for livestock farm business ▪ Shadow prices	• Input – output livestock farm business • Opportunity cost • The concept, determination and evaluation of shadow price for livestock farm business • the differences between financial and economic analysis. • Determination of financial and economic analysis	3 x 100 minute	Book no. 1,2, 3, 4,5 and 9
4.	Student can understand and explain The concept of discounting and undiscounting computation and application of time value of money for livestock farm business investment analysis.	Discounting and undiscounting analysis, time value of money	• Compounding interest factor • Annuity and deferred annuity	100 minute	Book no. 1,3,6 and 9

5.	Student can understand and explain the investment criteria concept consist of NPV, IRR, Gross BC, Net BC and influencing inflation for inevestment	Investment criteria for livestock farm business	• Net Present Value (NPV) • Internal Reate of Return (IRR) • Gross Benefit Cost Ratio (Gross BC) • Net Benefit Cost Ratio (Net BC) • Inflation focuss on the investment	6 x 100 minute	Book no. 1,3,5,6,7, 8,9, and 10
6.	Student can understand and explain investment criteria utilizing for choosing livestock farm business investment possibility	Investment criteria utilizing for choosing livestock farm business investment possibility	• IRR and Net BC comparison • Cross over discount rate	100 minute	Book no. 1,3,5,6,7, 8,9, and 10
7.	Student can understand, explain and compose the Livestock fram business FSPE Proposal	Composing the FSPE Proposal	• Composing the FSPE Proposal of livesctok farm business • Evaluating method of livestock Investment Criteria	100 minute	Book no. 1 and 6

SUBJECT STUDIED CONTRACT
FEASIBILITY STUDY AND PROJECT EVALUATION (3 SCS)

STUDY PROGRAM	:	SOCIAL ECONOMIC ANIMAL AGRICULTURE
DAY	:	
TIME	:	
CLASS	:	
LECTURER	:	

SYLLABUS :

Feasibility study and project evaluation discuss about project planning, some aspects of FSPE, cost and benefit identification for FSPE, Financial and economic analysis, discounting and discounting factor, investment criteria, and composing of FSPE Proposal

AIM OF GENERAL INSTRUCTION :

- At the end of study, the student can understand and explain the component, definition and meaning of livestock FSPE
- Student can understand and compose the livestock farm business FSPE proposal

LECTURING AGENDA UNIT

WEEK	TOPIC	SUB TOPIC	LECTURER
I	Introduction	▪ Definition and meaning of Feasibility Study and Project Evaluation (FSPE) and its application for livestock farm business. ▪ Benefit, scoupe and project cycle of FSPE	
2, 3	Some aspetcs of FSPE	▪ Technical aspect, ▪ Managerial and administration aspect, ▪ Commercial aspect, ▪ Financial and economic aspec, ▪ Legal aspect ▪ Environmental aspect	
4, 5, 6	▪ Financial and economic aspect for livestock farm business ▪ Shadow prices	• Input – output livestock farm business • Opportunity cost • The concept, determination and evaluation of shadow price for livestock farm business • the differences between financial and economic analysis.	

		• Determination of financial and economic analysis	
7	Discounting and undiscounting analysis, time value of money	• Compounding interest factor • Annuity and deferred annuity	
8	• MID TEST		TEAM
10, 11, 12, 13, 14	Investment criteria for livestock farm business	• Net Present Value (NPV) • Internal Reate of Return (IRR) • Gross Benefit Cost Ratio (Gross BC) • Net Benefit Cost Ratio (Net BC) • Inflation focuss on the investment	
14, 15	Investment criteria utilizing for choosing livestock farm business investment possibility	• IRR and Net BC comparison • Cross over discount rate	
16	Composing the FSPE Proposal	• Composing the FSPE Proposal of livesctok farm business • Evaluating method of livestock Investment Criteria	

PRACTICAL AGENDA UNIT

- Mahasiswa diberikan bimbingan yang berkaitan dengan kegiatan praktikum lapangan tentang permasalahan dan bagaimana menyusun SKEP yang dapat dikerjakan sebagai tugas.

F. EVALUATION :

1. Assignment and Practice : 40 %
2. MIDTest : 30 %
3. Final Exam : 30 %

Total : 100%

E. BIBLIOGRAPHY :

1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta.
2. Ellen Christina, M. Fuad, Sugiyanto dan E. Sukarno. 2002. Anggaran Perusahaan Suatu Pendekatan Praktis. PT Gramedia Pustaka Utama, Jakarta.
3. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya.
4. Indriyo Gitosudarmo dan Muhamad Najnudin. 2003. Anggaran Perusahaan Teori dan Soal Jawab. BPFE, Yogyakarta
5. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press, Jakarta. (Terjemahan)

6. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta.
7. Siswanto Sutojo. 1989. Studi Kelayakan Proyek. PT Pustaka Binaman Pressindo. Jakarta.
8. Soetrisno PH. 1995. Dasar-Dasar Evaluasi dan Manajemen Proyek. Andi Offset. Yogyakarta.
9. Suad Husnan dan Suwarsono Muhammad. 2000. Studi Kelayakan Proyek. UKPN Yogyakarta.
10. Yakob Ibrahim. 2003. Studi Kelayakan Bisnis. Rineka Cipta. Jakarta.

LECTURING AGENDA UNIT I

Subject Studied : **FEASIBILITY STUDY AND PROJECT EVALUATION**
Code of Subject : PTE 308 / 2-1
System of Credit Semester : 3 SCS (2-1)
Time of Meeting : 1 x 100 munite
Meeting Schedule : 1

A. AIM
1. Aim of General Instruction :
- At the end of study, the student can understand and explain the component, definition and meaning of livestock FSPE
- Student can understand and compose the livestock farm business FSPE proposal

2. Aim of Special Instruction : Student can understand and explain the definition and meaning, benefit and project cycle of FSPE

B. Topic : Introduction

C. Sub Topic :
- Definition and meaning of Feasibility Study and Project Evaluation (FSPE) and its application for livestock farm business.
- Benefit, scoupe and project cycle of FSPE

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain : • The competence of topis and sub topic • the lectured contract and textbook for FSPE	▪ Take note of ▪ written and discussion ▪ Take note of	White board, OHP / LCD. board maker.
Presentation	Describe and explain • Definition and meaning of Feasibility Study and Project Evaluation (FSPE) and its application for livestock farm business, benefit, scoupe and project cycle of FSPE	▪ give suggestion ▪ discussion ▪ written	White board, OHP / LCD. board maker.
The closing of the session	a. closing of session b. give the conclusion of topic, sub topic and discussion result c. give an assigment related to introduction material d. describe the next subject lectured	▪ presentation ▪ give comment or question related to introduction and scoupe of FSPE ▪ doing an assignment ▪ take not eof	▪ group report ▪ written the comment and question

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability and student class activity

F. BIBLIOGRAPHY

1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta.
2. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya.
3. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press, Jakarta.
4. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta.
5. Suad Husnan dan Suwarsono Muhammad. 2000. Studi Kelayakan Proyek. UKPN Yogyakarta.

LECTURING AGENDA UNIT II

Subject Studied	:	**FEASIBILITY STUDY AND PROJECT EVALUATION**
Code of Subject	:	PTE 308 / 2-1
System of Credit Semester		3 SCS (2-1)
Time of Meeting	:	2 x 100 munite
Meeting Schedule	:	2, 3 and 4

A. AIM
   1. Aim of General Instruction :
      - At the end of study, the student can understand and explain the component, definition and meaning of livestock FSPE
      - Student can understand and compose the livestock farm business FSPE proposal
   2. Aim of Special Instruction : Student can understand and explain some aspects of FSPE, such technical aspect, managerial and administration aspect, commercial aspect, financial and economic aspec, legal aspect and environmental aspect

B. Topic : Some aspects of FSPE

C. Sub Topic :
   - Technical aspect,
   - Managerial and administration aspect,
   - Commercial aspect,
   - Financial and economic aspec,
   - Legal aspect
   - Environmental aspect

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain : • The competence of topis and sub topic • Some aspects of FSPE	▪ Take note of ▪ written and discussion ▪ Take note of	White board. OHP / LCD. board maker.
Presentation	Describe and explain ▪ Technical aspect, ▪ Managerial and administration aspect, ▪ Commercial aspect, ▪ Financial and economic aspec, ▪ Legal aspect ▪ Environmental aspect ▪ Group discussion ▪ randomly point toward the student to present the group discussion report ▪ describe the next subject lectured	▪ give suggestion ▪ discussion and prsentation ▪ written and submit of group report	White board. OHP / LCD. board maker.

The closing of the session	a. closing of session b. give the conclusion of topic, sub topic and discussion result c. give an assigment related to some aspects of FSPE d. describe the next subject lectured	▪ presentation ▪ give comment or question related to some aspects of FSPE ▪ doing an assignment ▪ take note of	▪ group report ▪ written the comment and question

E. EVALUATION :

The Instrument usage : check list for evaluating an assigment student capability and student class activity

F. BIBLIOGRAPHY :

1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta.
2. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya.
3. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press, Jakarta.
4. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta.
5. Soetrisno PH. 1995. Dasar-Dasar Evaluasi dan Manajemen Proyek. Andi Offset. Yogyakarta.
6. Suad Husnan dan Suwarsono Muhammad. 2000. Studi Kelayakan Proyek. UKPN Yogyakarta

LECTURING AGENDA UNIT III

Subject Studied	:	**FEASIBILITY STUDY AND PROJECT EVALUATION**
Code of Subject	:	PTE 308 / 2-1
System of Credit Semester		3 SCS (2-1)
Time of Meeting	:	2 x 100 munite
Schedule Meeting	:	5, 6 and 7

a. AIM

1. Aim of General Instruction :
   - At the end of study, the student can understand and explain the component, definition and meaning of livestock FSPE
   - Student can understand and compose the livestock farm business FSPE proposal
2. Aim of Special Instruction : Student can understand and explain the financial and economic aspects consist of input factors utilizing for livestock farm business, livestock product, opportunity cost and, the differences between financial and economic analysis.

B. Topic :
   - Financial and economic aspect for livestock farm business
   - Shadow prices

C. Sub Topic :
   - Input – output livestock farm business
   - Opportunity cost
   - The concept, determination and evaluation of shadow price for livestock farm business
   - the differences between financial and economic analysis.
   - Determination of financial and economic analysis

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain : • The competence of topis and sub topic • Financial and economic analysis and shadow prices	▪ Take note of ▪ written and discussion ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe and explain : • Input – output livestock farm business • Opportunity cost • The concept, determination and evaluation of shadow price for livestock farm business • the differences between financial and economic analysis. • Determination of financial and economic analysis • Group discussion	▪ give suggestion ▪ discussion and presentation ▪ written and submit of group report ▪ submit an assignment	White board, OHP / LCD, board maker.

	• Randomly point toward the student to present group discussion report • Describe next subject lectured		
The closing of the session	a. closing of session b. give the conclusion of topic, sub topic and discussion result c. give an assigment related to financial and economic analysis d. describe the next subject lectured	▪ presentation ▪ give comment or question related to financial and economic anaysis of FSPE ▪ doing an assignment ▪ take note of	▪ group report ▪ written the comment and question

E. EVALUATION :

The Instrument usage : check list for evaluating an assigment student capability and student class activity

F. BIBLIOGRAPHY :

1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta.
2. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya.
3. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press, Jakarta.
4. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta.
5. Suad Husnan dan Suwarsono Muhammad. 2000. Studi Kelayakan Proyek. UKPN Yogyakarta

LECTURING AGENDA UNIT IV

Subject Studied : **FEASIBILITY STUDY AND PROJECT EVALUATION**
Code of Subject : PTE 308 / 2-1
System of Credit Semester : 3 SCS (2-1)
Time of Meeting : 1 x 100 munite
Schedule Meeting : 8

A. AIM
1. Aim of General Instruction :
- At the end of study, the student can understand and explain the component, definition and meaning of livestock FSPE
- Student can understand and compose the livestock farm business FSPE proposal

2. Aim of Special Instruction : Student can understand and explain the concept of discounting and undiscounting computation and application of time value of money for livestock farm business investment analysis.

B. Topic : Discounting and undiscounting analysis, time value of money

C. Sub Topic :
- Compounding interest factor
- Annuity and deferred annuity

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain : • The competence of topis and sub topic • Discounting and undiscounting factor	▪ Take note of ▪ written and discussion ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	• Compounding interest factor • Annuity and deferred annuity • Group discussion • Randomly point toward the student to present group discussion report • Describe next subject lectured	▪ Take note of ▪ give suggestion ▪ discussion and presentation ▪ written and submit of group report submit an assignment	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. give the conclusion of topic, sub topic and discussion result c. give an assigment related to discounting and undiscounting factor d. describe the next subject lectured	▪ presentation ▪ give comment or question related to discounting, undiscounting ▪ doing an assignment ▪ take note of	▪ group report ▪ written the comment and question

E. EVALUATION :
The Instrument usage : check list for evaluating an assigment student capability and student class activity

F. BIBLIOGRAPHY :

1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta.
2. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya.
3. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press, Jakarta.
4. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta.
5. Soetrisno PH. 1995. Dasar-Dasar Evaluasi dan Manajemen Proyek. Andi Offset. Yogyakarta.
6. Suad Husnan dan Suwarsono Muhammad. 2000. Studi Kelayakan Proyek. UKPN Yogyakarta

LECTURING AGENDA UNIT V

Subject Studied	:	**FEASIBILITY STUDY AND PROJECT EVALUATION**
Code of Subject	:	PTE 308 / 2-1
System of Credit Semester		3 SCS (2-1)
Time of Meeting	:	6 x 100 munite
Schedule Meeting	:	9, 10, 11, 12, 13, and 14

A. AIM

1. Aim of General Instruction :
   - At the end of study, the student can understand and explain the component, definition and meaning of livestock FSPE
   - Student can understand and compose the livestock farm business FSPE proposal
2. Aim of Special Instruction : Student can understand and explain the investment criteria concept consist of NPV, IRR, Gross BC, Net BC and influencing inflation for inevestment

B. Topic : Investment criteria for livestock farm business

C. Sub Topic : Investment concept and investment criteria, such :
   - Net Present Value (NPV)
   - Internal Reate of Return (IRR)
   - Gross Benefit Cost Ratio (Gross BC)
   - Net Benefit Cost Ratio (Net BC)
   - Inflation focuss on the investment

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain : • The competence of topis and sub topic • Investment criteria	▪ Take note of ▪ written and discussion ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe and explain relation to Investment concept and investment criteria, such : • Net Present Value (NPV) • Internal Reate of Return (IRR) • Gross Benefit Cost Ratio (Gross BC) • Net Benefit Cost Ratio (Net BC) • Inflation focuss on the investment Group discussion Randomly point toward the student to present group discussion report	▪ Take note of ▪ give suggestion ▪ discussion and presentation ▪ written and submit of group report submit an assignment	White board, OHP / LCD, board maker.

	Describe next subject lectured		
The closing of the session	a. closing of session b. give the conclusion of topic, sub topic and discussion result c. give an assigment related to investment criteria d. describe the next subject lectured	▪ presentation ▪ give comment or question related to investment criteria ▪ doing an assignment ▪ take note of	▪ group report ▪ written the comment and question

E. EVALUATION :

The Instrument usage : check list for evaluating an assigment student capability and student class activity

F. BIBLIOGRAPHY :

1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta.
2. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya.
3. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press, Jakarta.
4. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta.
5. Soetrisno PH. 1995. Dasar-Dasar Evaluasi dan Manajemen Proyek. Andi Offset. Yogyakarta.
6. Suad Husnan dan Suwarsono Muhammad. 2000. Studi Kelayakan Proyek. UKPN Yogyakarta

LECTURING AGENDA UNIT VI

Subject Studied : **FEASIBILITY STUDY AND PROJECT EVALUATION**
Code of Subject : PTE 308 / 2-1
System of Credit Semester : 3 SCS (2-1)
Time of Meeting : 1 x 100 munite
Schedule Meeting : 15

A. AIM
1. Aim of General Instruction :
- At the end of study, the student can understand and explain the component, definition and meaning of livestock FSPE
- Student can understand and compose the livestock farm business FSPE proposal

2. Aim of Special Instruction : Student can understand and explain investment criteria utilizing for choosing livestock farm business investment possibility

B. Topic : Investment criteria utilizing for choosing livestock farm business investment possibility

C. Sub Topic :
- IRR and Net BC comparison
- Cross over discount rate

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain : • The competence of topis and sub topic • Investment criteria utilizing for choosing investment possibility	▪ Take note of ▪ written and discussion ▪ Take note of	White board. OHP / LCD. board maker.
Presentation	Describe and explain : • IRR and Net BC comparison • Cross over discount rate Group discussion Randomly point toward the student to present group discussion report Describe next subject lectured	▪ Take note of ▪ give suggestion ▪ discussion and presentation ▪ written and submit of group report submit an assignment	White board. OHP / LCD. board maker.
The closing of the session	a. closing of session b. give the conclusion of topic, sub topic and discussion result c. give an assigment related to utilizing investment possibility d. describe the next subject lectured	▪ presentation ▪ give comment or question related to investment criteria possibility ▪ doing an assignment ▪ take note of	▪ group report ▪ written the comment and question

E. EVALUATION :

The Instrument usage : check list for evaluating an assigment student capability and student class activity

F. BIBLIOGRAPHY :

1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta.
2. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya.
3. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press, Jakarta.
4. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta.
5. Soetrisno PH. 1995. Dasar-Dasar Evaluasi dan Manajemen Proyek. Andi Offset. Yogyakarta.
6. Suad Husnan dan Suwarsono Muhammad. 2000. Studi Kelayakan Proyek. UKPN Yogyakarta

LECTURING AGENDA UNIT VI

Subject Studied : **FEASIBILITY STUDY AND PROJECT EVALUATION**
Code of Subject : PTE 308 / 2-1
System of Credit Semester : 3 SCS (2-1)
Time of Meeting : 1 x 100 munite
Schedule Meeting : 16

A. AIM
1. Aim of General Instruction :
   - At the end of study, the student can understand and explain the component, definition and meaning of livestock FSPE
   - Student can understand and compose the livestock farm business FSPE proposal
2. Aim of Special Instruction : Student can understand, explain and compose the Livestock fram business FSPE Proposal

B. Topic : Composing the FSPE Proposal

C. Sub Topic :
   - Composing the FSPE Proposal of livesctok farm business
   - Evaluating method of livestock Investment Criteria

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain : • The competence of topis and sub topic • Composing the FSPE Proposal	▪ Take note of ▪ written and discussion ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe and explain : • Composing the FSPE Proposal of livesctok farm business • Evaluating method of livestock Investment Criteria Group discussion Randomly point toward the student to present group discussion report Describe next subject lectured	▪ Take note of ▪ give suggestion ▪ discussion and presentation ▪ written and submit of group report submit an assignment	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. give the conclusion of topic, sub topic and discussion result c. describe the final exam	▪ presentation ▪ give comment or question related to composing FSPE Proposal ▪ take note of	▪ group report ▪ written the comment and question

E. EVALUATION :
The Instrument usage : check list for evaluating an assigment student capability and student class activity

F. BIBLIOGRAPHY :

1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta.
2. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya.
3. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press, Jakarta.
4. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta.
5. Soetrisno PH. 1995. Dasar-Dasar Evaluasi dan Manajemen Proyek. Andi Offset. Yogyakarta.
6. Suad Husnan dan Suwarsono Muhammad. 2000. Studi Kelayakan Proyek. UKPN Yogyakarta.

PRACTICAL AGENDA UNIT I

Subject Studied	:	**FEASIBILITY STUDY AND PROJECT EVALUATION**
Code of Subject	:	PTE 308 / 2-1
Time of Meeting	:	1 x 100 munite
Meeting Schedule	:	1

A. AIM

1. Aim of General Instruction :
   - At the end of practical, the student can compute interest rate, Payback Period, BC ratio, Profitability Indeks, IRR, NPV, Financial and Economis Analisys Ekonomi and compose FSPE proposal.
   -
2. Aim of Special Instruction : Student can understand and explain present value and future value and interest of rate

B. Topic : Time value of money

C. Sub Topic : Present value and future value and interest of rate

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and give an example of present value, future value and interest rate calculation	▪ Take note of ▪ written and discussion	White board, OHP / LCD, board maker. Prcatical guidance
Presentation	Describe and give an example of present value, future value and interest rate calculation	▪ Take note of ▪ Give an answere ▪ Give suggestion	White board, OHP / LCD, board maker. Prcatical guidance
The closing of the practical	a. give the conclusion of topic, sub topic and discussion result b. give an assigment related to time value of money c. describe the next subject practical	▪ give comment or question related to time value of money ▪ doing an assignment ▪ take note of	written the comment and question

E. EVALUATION : doing an assignment and give next an assignment

F. BIBLIOGRAPHY

1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta.
2. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya.
3. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press, Jakarta.

4. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta.
5. Kadarsan, 1996. Evaluasi Proyek-proyek Pertanian, UI Press, Jakarta
6. Suad Husnan dan Suwarsono Muhammad. 2000. Studi Kelayakan Proyek. UKPN Yogyakarta.

PRACTICAL AGENDA UNIT II

Subject Studied : **FEASIBILITY STUDY AND PROJECT EVALUATION**
Code of Subject : PTE 308 / 2-1
Time of Meeting : 1 x 100 munite
Meeting Schedule : 2

A AIM
1. Aim of General Instruction : • At the end of practical, the student can compute interest rate, Payback Period, BC ratio, Profitability Indeks, IRR, NPV, Financial and Economis Analisys Ekonomi and compose FSPE proposal.
2. Aim of Special Instruction : Student can understand, explain and calculate of depreciation method

B. Topic : Depreciation Method

C. Sub Topic : Depreciation Method

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	▪ Describe and explain depreciation method ▪ Calculation of depreciation method	▪ Take note of ▪ written and discussion	White board, OHP / LCD, board maker. Prcatical guidance
Presentation	Describe, explain and calculate of livestock farm business depreciation	calculate of livestock farm business depreciation	White board, OHP / LCD, board maker. Prcatical guidance
The closing of the practical	a. give the conclusion of topic, sub topic and discussion result b. give an assigment related to depreciation method c. describe the next subject practical	▪ give comment or question related to depreciation method ▪ doing an assignment ▪ take note of	written the comment and question

E. EVALUATION : doing an assignment and give next an assignment

F. BIBLIOGRAPHY :

1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta.
2. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya.
3. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press. Jakarta.

4. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta.
5. Soetrisno PH. 1995. Dasar-Dasar Evaluasi dan Manajemen Proyek. Andi Offset. Yogyakarta.
6. Suad Husnan dan Suwarsono Muhammad. 2000. Studi Kelayakan Proyek. UKPN Yogyakarta

PRACTICAL AGENDA UNIT III

Subject Studied : **FEASIBILITY STUDY AND PROJECT EVALUATION**
Code of Subject : PTE 308 / 2-1
Time of Meeting : 1 x 100 munite
Meeting Schedule : 3

A AIM
1. Aim of General Instruction : • At the end of practical, the student can compute interest rate, Payback Period, BC ratio, Profitability Indeks, IRR, NPV, Financial and Economis Analisys Ekonomi and compose FSPE proposal.
2. Aim of Special Instruction : Student can understand, explain and analyse of linear and non regression method for investment forecasting

B. Topic : Analysis of Investment forecasting

C. Sub Topic : Definition and meaning of regression analysis, usage and computing of linear and non linear regression for investment forecating

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain of regression analysis	▪ Take note of ▪ written and discussion	White board, OHP / LCD, board maker. Prcatical guidance
The closing of the practical	a. give the conclusion of topic, sub topic and discussion result b. give an assigment related to depreciation method c. describe the next subject practical	▪ give comment or question related to regression analysis ▪ doing an assignment ▪ take note of	written the comment and question

E. EVALUATION : doing an assignment and give next an assignment

F. BIBLIOGRAPHY :

1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta.
2. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya.
3. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press, Jakarta.
4. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta.
5. Kadarsan, 1996. Evaluasi Proyek-proyek Pertanian, UI Press, Jakarta

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PRACTICAL AGENDA UNIT IV

Subject Studied : **FEASIBILITY STUDY AND PROJECT EVALUATION**
Code of Subject : PTE 308 / 2-1
Time of Meeting : 1 x 100 munite
Meeting Schedule : 4

A AIM
1. Aim of General Instruction : • At the end of practical, the student can compute interest rate, Payback Period, BC ratio, Profitability Indeks, IRR, NPV, Financial and Economis Analisys Ekonomi and compose FSPE proposal.
2. Aim of Special Instruction : Student can understand and explain some aspects of FSPE

B. Topic : ▪ Some aspects for activity planning
▪ Some aspects for activity realization of livestock investment

C. Sub Topic : Technical aspect, Managerial and administration aspect, Commercial aspect, Financial and economic aspect, Legal aspect Environmental aspect

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe, explain and give an example of some aspects of FSPE	▪ Take note of ▪ written and discussion	White board, OHP / LCD, board maker. Prcatical guidance
Presentation	Describe, explain and give an example of some aspects of FSPE	▪ take note of and compose some aspects related to FSPE	▪ Board ▪ OHP/LCD ▪ Petunjuk Praktikum
The closing of the practical	a. give the conclusion of topic, sub topic and discussion result b. give an assigment related to depreciation method c. describe the next subject practical	▪ give comment or question related to some aspects of FSPE ▪ doing an assignment ▪ take note of	written the comment and question

E. EVALUATION : doing an assignment and give next an assignment

F. BIBLIOGRAPHY :

1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta.
2. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya.

3. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press, Jakarta.
4. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta.
5. Soetrisno PH. 1995. Dasar-Dasar Evaluasi dan Manajemen Proyek. Andi Offset. Yogyakarta.
6. Suad Husnan dan Suwarsono Muhammad. 2000. Studi Kelayakan Proyek. UKPN Yogyakarta

PRACTICAL AGENDA UNIT V

Subject Studied : **FEASIBILITY STUDY AND PROJECT EVALUATION**
Code of Subject : PTE 308 / 2-1
Time of Meeting : 1 x 100 munite
Meeting Schedule : 5

A AIM
1. Aim of General Instruction : • At the end of practical, the student can compute interest rate, Payback Period, BC ratio, Profitability Indeks, IRR, NPV, Financial and Economis Analisys Ekonomi and compose FSPE proposal.
2. Aim of Special Instruction : Student can understand and explain the investment criteria of livestock farm business

B. Topic : ▪ Livestock Investment Criteria

C. Sub Topic : Some analysis of investment criteria

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe, explain and give an example of investment calculation	▪ Take note of ▪ written and discussion	White board, OHP / LCD, board maker. Prcatical guidance
Presentation	Describe, explain and give an example of ROI, NPV, IRR, BC ratios calculation and influencing of inflation to FSPE	▪ take note of and calculate the investment criteria	▪ Board ▪ OHP/LCD ▪ Petunjuk Praktikum
The closing of the practical	a. give the conclusion of topic, sub topic and discussion result b. give an assigment related to depreciation method c. describe the next subject practical	▪ give comment or question related investment criteria ▪ doing an assignment ▪ take note of	written the comment and question

E. EVALUATION : doing an assignment and give next an assignment

F. BIBLIOGRAPHY :

1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta.
2. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya.
3. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press, Jakarta.

4. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta.
5. Soetrisno PH. 1995. Dasar-Dasar Evaluasi dan Manajemen Proyek. Andi Offset. Yogyakarta.
6. Suad Husnan dan Suwarsono Muhammad. 2000. Studi Kelayakan Proyek. UKPN Yogyakarta

PRACTICAL AGENDA UNIT VI

Subject Studied : **FEASIBILITY STUDY AND PROJECT EVALUATION**
Code of Subject : PTE 308 / 2-1
Time of Meeting : 1 x 100 munite
Meeting Schedule : 6

A AIM
1. Aim of General Instruction : • At the end of practical, the student can compute interest rate, Payback Period, BC ratio, Profitability Indeks, IRR, NPV, Financial and Economis Analisys Ekonomi and compose FSPE proposal.
2. Aim of Special Instruction : Student can understand, explain and compose the FSPE Proposal and calculate livestock farm business in term of financial and economic analysis

B. Topic : Composing Livestock FSPE Proposal

C. Sub Topic : Data collecting from farm business or small scale of farming

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe, explain and give an example of FSPE usage for farm business livestock	▪ Take note of ▪ written and discussion	White board, OHP / LCD, board maker. Prcatical guidance
Presentation	Student visitation to livestock farm business or livestock small farm scale	▪ visitation and practical to farm	▪ Board ▪ OHP/LCD ▪ Petunjuk Praktikum
The closing of the practical	a. give the conclusion of topic, sub topic and discussion result d. the result of FSPE proposal composing description	▪ presentation of FSPE Report	Practical report

E. EVALUATION : doing an assignment and give next an assignment

F. BIBLIOGRAPHY :

1. Clive Gray, Payaman Simanjuntak, Lien K. Sabur, PFL Maspaitela dan RCG Varley. 1997. Pengantar Evaluasi Proyek. Gramedia Jakarta.
2. Iman Suharto. 1995. Manajemen Proyek. Dari Konseptual sampai Operasional. Penerbit Erlangga, Surabaya.
3. J. Price Gittinger. 1992. Analisa Ekonomi Proyek-Proyek Pertanian. UI Press, Jakarta.
4. Kadariah, Lien Karlina dan Clive Gray. 1978. Pengantar Evaluasi Proyek. FE UI, Jakarta.

5. Soetrisno PH. 1995. Dasar-Dasar Evaluasi dan Manajemen Proyek. Andi Offset. Yogyakarta.
6. Suad Husnan dan Suwarsono Muhammad. 2000. Studi Kelayakan Proyek. UKPN Yogyakarta

COURSE	:	TRADE OF LIVESTOCK AND ITS PRODUCTION
COURSE CODE	:	IPE 406P
CREDIT	:	2 (2-0)

COURSE OUT LINE

TRADE OF LIVESTOCK AND ITS PRODUCTION
CODE OF LECTURE: IPE 406P
SCS : 2(2-0)

SUBJECT OF COURSE : TRADE OF LIVESTOCK AND ITS PRODUCTION

CODES/SCS : IPE 406P / 2(2-0)

SHORT DESCRIPTION:

This course discussing about term and scope of marketing of livestock and its production, marketing approach, consumer behavior, supply and demand of farm productions, government policy of marketing system, theory of international trade, export-import, supporting of international trade institutions, transaction, the law of international trade.

PURPOSES OF GENERAL INTRUCTUTION:

Student may understand and explain how marketing activity to trade of livestock and its productions happened, understand how export-import transaction and its influencing factors.

REFERENCES

1. Amin. EKSPOR-IMPORT TEORI DAN PENERAPANNYA. 201. Penerbit PPM.
2. Faisal Affix, 1994. Menu Pemasaran Global. Cetakan Pertama. Penerbit PT. Eresco. Bandung.
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4. Hamdani. 2003. Seluk Beluk Ekspor-Impor. Yayasan Bina Usaha Niaga Indonesia. Jakarta.
5. Hamdy Hady. 2001. Ekonomi Internasional : Teori dan Kebijakan Perdagangan Internasional. Buku i. Edisi ke-3. Penerbit Ghalia Indonesia. Jakarta.
6. Nopirin. 1999. Ekonomi Internasional. Edisi ke-3. Penerbit BPFE. Jogyakarta.
7. Ramlan Ginting. 2000. Letter of Credit: Tinjauan Aspek Hukum dan Bisnis. Penerbit Salemba Empat. Jakarta.
8. Rusdin. 2002. Bisnis Internasional: Teori, Masalah dan Kebijakan. Penerbit Alfabeta.
9. Sabri. 2001. Ekonomi Internasional: Teori, Masalah dan Kebijakasanaannya. Penerbit BPFE UII. Yogyakarta.
10. Salvatore, D. 1997. Ekonomi Internasional. Alih Bahasa : Drs. Haris Munan, Penerbit Erlangga. Jakarta.

11. Napitupulu, A. H. 1986. Tata Niaga Peternakan: Suatu Pengantar. Sistem, Koordinasi dan Pasar Berjangka. Jurusan Sosial Ekonomi. IPB. Bogor.
12. Swastha, B. 1984. Azas-azas Marketing. Liberty. Yogyakarta.
13. Kotler, P. 1997. Manajemen Pemasaran. Prenhalindo. Jakarta. (Alih bahasa : H. Teguh dan R.A. Rusli).
14. Badan Pendidikan dan Latihan Manajemen. 1993. Agribisnis: Seri VI. Departemen Pertanian RI. Jakarta.
15. Mulyadi. 1984. Akuntansi Biaya untuk Manajemen. BPFE. Yogyakarta.
16. Swastha, B dan Irawan. 1990. Manajemen Pemasaran Modern. Liberty. Yogyakarta.
17. Sutisna. 2003. Perilaku Konsumen dan Komunikasi Pemasaran. PT. Remaja Rosdakarya. Bandung.

JUDGMENT:
Mid-test: 50%
Last-test: 50%

NOTES:
Homework's are as part include to Mid-test or Last-test evaluation.

No	Especially Instructional Purposes	Topics	Sub-topics		
1	At the end of lectures, students know and can explain terms of marketing, trade and market to how important role of marketing and trade of livestock.	Term of marketing and trading of livestock.	1. Term and role of marketing and trading. 2. Concept of markets 3. Marketing and trading livestock and its productions.	1 x 100 minute	1,2, 11, 13 & 16
2	At the end of lectures, students know and can explain marketing approach	Marketing approach	1. Commodity Approach 2. Function Approach 3. Institutional Approach 4. Geographical Approach 5. System Approach	1 x 100 minute	12, 13 & 16
3	At the end of lectures, students know and can explain consumer behavior	Consumer Behavior	1. Attitude 2. Preferences 3. Behavior	1 x 100 minute	17
4	At the end of lectures, students know and can explain about market	Market	1. Market structure 2. Segmentation and market share 3. Kind of market	1 x 100 minute	12, 13 & 16

5	At the end of lectures, students know and able to explain about livestock supply and demand, price determined method, margin and cost of marketing.	Supply and Demand	1. Livestock supply and demand, 2. Elasticity of supply and demand, 3. prices determined method, 4. Margin and cost of marketing.	2x 100 minute	12, 13, 15 & 16
6	At the end of lectures, students know and can explain about government policy and associations.	Government policy and association.	1. Policy of facilities 2. Policy of regulations 3. Policy of association and Institutions	1 x 100 minute	11 & 14
7	At the end of lectures, students know and can explain about advantage of international trade globalization.	Advantage of international trade globalization.	1. Absolute Advantage 2. Comparatives advantage 3. Competitive advantage 4. Equilibrium of world prices 5. Globalization trading.	1 x 100 minute	4, 5, 8, 9 & 10
8	At the end of lectures, students know and can explain about export – import and it's constrain.	Export – import and its constrain	1. The law of export-import 2. classification of Goods to Export-Import	1 x 100 minute	1 & 4
9	At the end of lectures, students know and can explain about institution supporting to international trade.	Institution supporting to international trade.	1. History of International convention 2. Government and private institutions 3. transportation and custom office 4. Restriction and protection 5. Problems of trading for	2x 100 minute	4,5,8,9 & 10
10	At the end of lectures, students know and can explain about export-import transaction	Basic of transaction	1. Term and goals 2. Procedures to export 3. Procedures to pay 4. Procedures to claim	2x 100 minute	1 & 4
11	At the end of lectures, students know and can explain about the law of International trade aspects	The law of International trade aspects	1. The law of business aspects 2. The law of transaction of international business	1 x 100 minute	1 & 6
12	At the end of lectures, students know and can explain about export-import factors influencing	export-import factors influencing	1. marketing strategy to export commodities of agricultural 2. The policy of Export-import agricultural commodities	2x 100 minute	4 & 9

Contract Study

Study Program : S1 Social Economics of Animal Husbandry
Date schedule :
Time schedule :
Place :
Lecturer :

SYLLABI:
Studies want to discussing about term and scope of marketing of livestock and its production, marketing approach, consumer behavior, supply and demand of farm productions, government policy of marketing system, theory of international trade, export-import, supporting of international trade institutions, transaction, and the law of international trade.

PURPOSES OF GENERAL INTRUCTUTION:
Student may understand and explain how marketing activity to trade of livestock and its productions happened, understand how export-import transaction and its influencing factors.

SET OF COURSE PROGRAMS

Weeks	Topics	Sub-topics	Lecturer
1	Introduction, marketing, trading and market, the role of trading and marketing of livestock.	1. Term and role of marketing and trading. 2. Concept of market 3. Marketing and trading livestock and its productions.	
2	Marketing approach	1. Commodity Approach 2. Function Approach 3. Institutional Approach 4. Geographical Approach 5. System Approach	
3	Consumer Behavior	1. Attitude 2. Preferences 3. Behavior	
4	Market	1. Market structure 2. Segmentation and market share 3. Kind of market	
5 & 6	Supply and Demand livestock and its production, price of determine method, margin and cost of marketing	1. Livestock supply and demand, 2. Elasticity of supply and demand, 3. prices determined method, 4. Margin and cost of marketing.	
7	Government policy and association.	1. Policy of facilities 2. Policy of regulations 3. Policy of association and Institutions	
8	Mid test		
9	Advantage of international trade globalization.	1. Absolute Advantage 2. Comparatives advantage 3. Competitive advantage 4. Equilibrium of world prices 5. Globalization trading.	

11 & 12	Export – import and its constrain	1. Based on export-import 2. Classification of export-import goods 3. Restriction & protection for international trade 4. Kinds of protection 5. Trade Problems for development country, developing country and under development country.	
13	Institution supporting to international trade.	1. History of International convention 2. Government and private institutions 3. Transportation and equipment 4. Custom office 5. Freight Forwarder 6. Document of transaction	
14 & 15	Basic of export-import transaction	1. Term and goals 2. Procedures to export 3. Procedures to pay 4. Procedures to claim	
16	The law of International trade aspects	3. The law of business aspects 5. The law of transaction of international business	

E. References

1. Amin. EKSPOR-IMPORT TEORI DAN PENERAPANNYA. 201. Penerbit PPM.
2. Faisal Affix, 1994. Menu Pemasaran Global. Cetakan Pertama. Penerbit PT. Eresco. Bandung.
3. Napitupulu, A. H. 1986. Tata Niaga Peternakan: Suatu Pengantar. Sistem, Koordinasi dan Pasar Berjangka. Jurusan Sosial Ekonomi. IPB. Bogor.
4. Swastha, B. 1984. Azas-azas Marketing. Liberty. Yogyakarta.
5. Kotler, P. 1997. Manajemen Pemasaran. Prenhalindo. Jakarta. (Alih bahasa : H. Teguh dan R.A. Rusli).
6. Swastha, B dan Irawan. 1990. Manajemen Pemasaran Modern. Liberty. Yogyakarta.

SET OF STUDY PROGRAMS

Subject of study: Trade of Livestock and Its Production
Code of Lecture: IPE 406P
SCS : 2(2-0)
Time schedule : 1 x 100 minute
Meeting times : 1

A. GOALS

1. GIG: Student may understand and explain how marketing activity to trade of livestock and its productions happened, understand how export-import transaction and its influencing factors.
2. SIG: At the end of lectures, students know and can explain terms of marketing, trade and market to how important role of marketing and trade of livestock.

B. TOPICS: Term, marketing, trade and market to how important role of marketing and trade of livestock.

C. SUB-TOPICS: 1. Term and the important role of marketing and trade
2. Term of market
3. Marketing and livestock and its production trade.

D. Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Contract of lectures	Pay attention Writing Pay attention	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain : - Term and how important role of marketing and trade of livestock. - Term of market - marketing to livestock and its production trade 2. Asking the term to students 3. Clarification the student answers 4. to give guideline	Giving advice Asking –answering Writing	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain this short course 2. Explain the future course	Answering Listening	White Board, OHP/LCD, felt-tip marker

E. References

1. Amin. EKSPOR-IMPORT TEORI DAN PENERAPANNYA. 201. Penerbit PPM.
2. Faisal Affix, 1994. Menu Pemasaran Global. Cetakan Pertama. Penerbit PT. Eresco. Bandung.
3. Napitupulu, A. H. 1986. Tata Niaga Peternakan: Suatu Pengantar. Sistem, Koordinasi dan Pasar Berjangka. Jurusan Sosial Ekonomi. IPB. Bogor.
4. Swastha, B. 1984. Azas-azas Marketing. Liberty. Yogyakarta.
5. Kotler, P. 1997. Manajemen Pemasaran. Prenhalindo. Jakarta. (Alih bahasa : H. Teguh dan R.A. Rusli).
6. Swastha, B dan Irawan. 1990. Manajemen Pemasaran Modern. Liberty. Yogyakarta.

SET OF STUDY PROGRAMS

Subject of study: Trade of Livestock and Its Production
Code of Lecture: IPE 406P
SCS : 2(2-0)
Time schedule : 1 x 100 minute
Meeting times : 2

B. GOALS

1. GIG: Student may understand and explain how marketing activity to trade of livestock happened, and can understand how export-import transaction and its influencing factors.
2. 2SIG: At the end of lectures, students know and can explain approach of marketing

B. TOPICS: Marketing Approach

C. SUB-TOPICS: 1. Commodity Approach
2. Function Approach
3. Institution Approach
4. Geography Approach
5. System Approach

D. Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG	Pay attention	White Board, OHP/LCD, felt-tip marker
Presentation	Explain about : - Commodity Approach - Function Approach - Institution Approach - Geography Approach - System Approach	Attentively Writing Asking & answering	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain this short course 2. Explain the future course	Answering Listening	White Board, OHP/LCD, felt-tip marker

E. References

1. Swastha, B. 1984. Azas-azas Marketing. Liberty. Yogyakarta.
2. Kotler, P. 1997. Manajemen Pemasaran. Prenhalindo. Jakarta. (Alih bahasa : H. Teguh dan R.A. Rusli).
3. Swastha, B dan Irawan. 1990. Manajemen Pemasaran Modern. Liberty. Yogyakarta.

SET OF STUDY PROGRAMS

Subject of study: Trade of Livestock and Its Production
Code of Lecture: IPE 406P
SCS : 2(2-0)
Time schedule : 1 x 100 minute
Meeting times : 3

C. GOALS

3. GIG: Student may understand and explain how marketing activity to trade of livestock happened, and can understand how export-import transaction and its influencing factors.
4. 2SIG: At the end of lectures, students know and can explain consumer behavior

B. TOPICS: Consumer Behavior

C. SUB-TOPICS: 1. Attitude
2. Preference
3. Behavior

D. Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG	Pay attention Writing Pay attention	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about : - Attitude - Preference - Behavior 2. Clarification the student answers 4. to give guideline 5. to give homework about consumer behavior	Attentively Writing Asking & answering Discussing Getting info from library and internet	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain short conclusion of course 2. Explain the future course	Answering brainstorming Listening	White Board, OHP/LCD, felt-tip marker

E. References

Sutisna. 2003. Perilaku Konsumen dan Komunikasi Pemasaran. PT. Remaja Rosdakarya. Bandung.

SET OF STUDY PROGRAMS

Subject of study: Trade of Livestock and Its Production
Code of Lecture: IPE 406P
SCS : 2(2-0)
Time schedule : 1 x 100 minute
Meeting times : 4

D. GOALS

1. GIG: Student may understand and explain how marketing activity to trade of livestock happened, and can understand how export-import transaction and its influencing factors.
2. SIG: At the end of lectures, students know and can explain about market

B. TOPICS: Market

C. SUB-TOPICS: 1. Market Structure
2. Segmentation and market share
3. Kinds of market

D. Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Collecting homework's	Pay attention Writing Hand homework's over	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about market structure 2. Explain about Segmentation and market share 3. Explain about Kinds of market 4. Clarification the student answers 5. to give guideline 6. to give homework about market	Attentively Writing Asking & answering Discussing Getting info from library and internet	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain short conclusion of course 2. Explain the future course	brainstorming Listening	White Board, OHP/LCD, felt-tip marker

E. References

1. Swathe, B. 1984. Azas-azas Marketing. Liberty. Yogyakarta.
2. Kotler, P. 1997. Manajemen Pemasaran. Prenhalindo. Jakarta. (Alih bahasa : H. Teguh dan R.A. Rusli).
3. Swastha, B dan Irawan. 1990. Manajemen Pemasaran Modern. Liberty. Yogyakarta.

SET OF STUDY PROGRAMS

Subject of study: Trade of Livestock and Its Production
Code of Lecture: IPE 406P
SCS : 2(2-0)
Time schedule : 2 x 100 minute
Meeting times : 5 & 6

E. GOALS

1. GIG: Student may understand and explain how marketing activity to trade of livestock happened, and can understand how export-import transaction and its influencing factors.
2. SIG: At the end of lectures, students know and able to explain about livestock supply and demand, price determined method, margin and cost of marketing.

B. TOPICS: supply demand of livestock and its production to price determine method and marketing cost.

C. SUB-TOPICS: 1. Livestock supply and demand,
2. Elasticity of supply and demand,
3. Price determined method,
4. Margin and cost of marketing.

D. Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Collecting homework's	Pay attention Writing Hand homework's over	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about Livestock supply and demand, 2. Explain about Elasticity of supply and demand, 3. Explain about Price determined method 4. Explain about Margin and cost of marketing. 5. Clarification the student answers	Attentively Writing Asking & answering Discussing	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain short conclusion of course 2. Explain the future course	Listening brainstorming	White Board, OHP/LCD, felt-tip marker

E. References

1. Mulyadi. 1984. Pemasaran. Prenhalindo. Jakarta.
2. Swatha, B. 1984. Azas-azas Marketing. Liberty. Yogyakarta.
3. Kotler, P. 1997. Manajemen Pemasaran. Prenhalindo. Jakarta. (Alih bahasa : H. Teguh dan R.A. Rusli).
4. Swastha, B dan Irawan. 1990. Manajemen Pemasaran Modern. Liberty. Yogyakarta.

SET OF STUDY PROGRAMS

Subject of study: Trade of Livestock and Its Production
Code of Lecture: IPE 406P
SCS : 2(2-0)
Time schedule : 2 x 100 minute
Meeting times : 7

F. GOALS

1. GIG: Student may understand and explain how marketing activity to trade of livestock happened, and can understand how export-import transaction and its influencing factors.
2. SIG: At the end of lectures, students know and can explain about government policy and associations.

B. TOPICS: Government policy and association

C. SUB-TOPICS: 1. Policy of facilities
2. Policy of regulations
3. Policy of association or other

D. Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Collecting homework's	Pay attention Writing Hand homework's over	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about Policy of facilities 2. Explain about Policy of regulations 3. Explain about Policy of association or other 4. Clarification the student answers 5. to give guideline 6. to give homework about government policy	Attentively Writing Asking & answering Discussing Getting info from library and internet	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain short conclusion of course 2. Explain the future course	Listening brainstorming	White Board, OHP/LCD, felt-tip marker

E. References

Napitupulu, A. H. 1986. Tata Niaga Peternakan: Suatu Pengantar. Sistem, Koordinasi dan Pasar Berjangka. Jurusan Sosial Ekonomi. IPB. Bogor.

Badan Pendidikan dan Latihan Manajemen. 1993. Agribisnis: Seri VI. Departemen Pertanian RI. Jakarta.

SET OF STUDY PROGRAMS

Subject of study: Trade of Livestock and Its Production
Code of Lecture: IPE 406P
SCS : 2(2-0)
Time schedule : 1 x 100 minute
Meeting times : 8

G. GOALS

1. GIG: Student may understand and explain how marketing activity to trade of livestock happened, and can understand how export-import transaction and its influencing factors.
2. SIG: At the end of lectures, students know and can explain about advantage of international trade globalization.

B. TOPICS: Advantage of international trade globalization.

C. SUB-TOPICS: 1. Absolute Advantage
2. Comparatives advantage
3. Competitive advantage
4. Equilibrium of world prices
5. Globalization trading Policy of facilities

D. Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Collecting homework's	Pay attention Writing Hand homework's over	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about Absolute Advantage 2. Explain about Comparatives advantage 3. Explain about Competitive advantage 4. Explain about Equilibrium of world prices 5. Explain about Globalization trading 6. Clarification the student answers	Attentively Writing Asking & answering Discussing	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain short conclusion of course 2. Explain the future course	Listening brainstorming	White Board, OHP/LCD, felt-tip marker

E. References

Hamdy Hady. 2001. Ekonomi Internasional : Teori dan Kebijakan Perdagangan Internasional. Buku i. Edisi ke-3. Penerbit Ghalia Indonesia. Jakarta.

Rusdin. 2002. Bisnis Internasional: Teori, Masalah dan Kebijakan. Penerbit Alfabeta.

Sabri. 2001. Ekonomi Internasional: Teori, Masalah dan Kebijakasanaannya. Penerbit BPFE UII. Yogyakarta.

SET OF STUDY PROGRAMS

Subject of study: Trade of Livestock and Its Production
Code of Lecture: IPE 406P
SCS : 2(2-0)
Time schedule : 2 x 100 minute
Meeting times : 9 & 10

H. GOALS

1. GIG: Student may understand and explain how marketing activity to trade of livestock happened, and can understand how export-import transaction and its influencing factors.
2. SIG: At the end of lectures, students know and can explain about export – import and it's constrain.

B. TOPICS: Export – import and it's constrain

C. SUB-TOPICS:
1. Based on export-import
2. Classification of export-import goods
3. Restriction & protection for international trade
4. Kinds of protection
5. Trade Problems for development country, developing country and under development country.

D. Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Collecting homework's	Pay attention Writing Hand homework's over	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about Based on export-import 2. Explain about Classification of export-import goods 3. Explain about Restriction & protection for international trade 4. Explain about Kinds of protection 5. Explain about Trade Problems for development country, developing country and under development country. 6. Clarification the student answers 7. to give homework about export – import and it's constrain	Attentively Writing Asking & answering Discussing Getting info from library and internet	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain short conclusion of course 2. Explain the future course	Listening brainstorming	White Board, OHP/LCD, felt-tip marker

E. References

Amin. EKSPOR-IMPORT TEORI DAN PENERAPANNYA. 201. Penerbit PPM.
Hamdani. 2003. Seluk Beluk Ekspor-Impor. Yayasan Bina Usaha Niaga Indonesia. Jakarta.
Hamdy Hady. 2001. Ekonomi Internasional : Teori dan Kebijakan Perdagangan Internasional. Buku i. Edisi ke-3. Penerbit Ghalia Indonesia. Jakarta.
Rusdin. 2002. Bisnis Internasional: Teori, Masalah dan Kebijakan. Penerbit Alfabeta.

Sabri. 2001. Ekonomi Internasional: Teori, Masalah dan Kebijakasanaannya. Penerbit BPFE UII. Yogyakarta.

Salvatore, D. 1997. Ekonomi Internasional. Alih Bahasa : Drs. Haris Munan, Penerbit Erlangga. Jakarta.

Sutisna. 2003. Perilaku Konsumen dan Komunikasi Pemasaran. PT. Remaja Rosdakarya. Bandung.

SET OF STUDY PROGRAMS

Subject of study: Trade of Livestock and Its Production
Code of Lecture: IPE 406P
SCS : 2(2-0)
Time schedule : 1 x 100 minute
Meeting times : 11

I. GOALS

1. GIG: Student may understand and explain how marketing activity to trade of livestock happened, and can understand how export-import transaction and its influencing factors.
2. SIG: At the end of lectures, students know and can explain about institution supporting to international trade.

B. TOPICS: Institution supporting to international trade.

C. SUB-TOPICS: 1. History of International convention
2. Government and private institutions
3. Transportation and equipment
4. Custom office
5. Freight Forwarder
6. Document of transaction

D. Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Collecting homework's	Pay attention Writing Hand homework's over	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about History of International convention 2. Explain about Government and private institutions 3. Explain about Transportation and equipment 4. Explain about Custom office 5. Explain about Freight Forwarder 6. Explain about Document of transaction 7. Clarification the student answers	Attentively Writing Asking & answering Discussing	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain short conclusion of course 2. Explain the future course	Listening brainstorming	White Board, OHP/LCD, felt-tip marker

E. References

Hamdani. 2003. Seluk Beluk Ekspor-Impor. Yayasan Bina Usaha Niaga Indonesia. Jakarta.

Hamdy Hady. 2001. Ekonomi Internasional : Teori dan Kebijakan Perdagangan Internasional. Buku i. Edisi ke-3. Penerbit Ghalia Indonesia. Jakarta.

Rusdin. 2002. Bisnis Internasional: Teori, Masalah dan Kebijakan. Penerbit Alfabeta.

Sabri. 2001. Ekonomi Internasional: Teori, Masalah dan Kebijakasanaannya. Penerbit BPFE UII. Yogyakarta.

Salvatore. D. 1997. Ekonomi Internasional. Alih Bahasa : Drs. Haris Munan, Penerbit Erlangga. Jakarta.

SET OF STUDY PROGRAMS

Subject of study: Trade of Livestock and Its Production
Code of Lecture: IPE 406P
SCS : 2(2-0)
Time schedule : 2 x 100 minute
Meeting times : 12 & 13

J. GOALS

1. GIG: Student may understand and explain how marketing activity to trade of livestock happened, and can understand how export-import transaction and its influencing factors.
2. SIG: At the end of lectures, students know and can explain about export-import transaction

B. TOPICS: Basic of export-import transaction

C. SUB-TOPICS:
1. Term and goals
2. Procedures to export
3. Procedures to pay
4. Procedures to claim

D. Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Collecting homework's	Pay attention Writing Hand homework's over	White Board. OHP/LCD, felt-tip marker
Presentation	1. Explain about Term and goals 2. Explain about Procedures to export 3. Explain about Procedures to pay 4. Explain about Procedures to claim 5. Clarification the student answers 6 to give homework about export – import and it's constrain	Attentively Writing Asking & answering Discussing Getting info from library and internet	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain short conclusion of course 2. Explain the future course	Listening brainstorming	White Board, OHP/LCD, felt-tip marker

E. References

Amin. EKSPOR-IMPORT TEORI DAN PENERAPANNYA. 201. Penerbit PPM.
Hamdani. 2003. Seluk Beluk Ekspor-Impor. Yayasan Bina Usaha Niaga Indonesia. Jakarta.

SET OF STUDY PROGRAMS

Subject of study: Trade of Livestock and Its Production
Code of Lecture: IPE 406P
SCS : 2(2-0)
Time schedule : 1 x 100 minute
Meeting times : 14

K. GOALS

1. GIG: Student may understand and explain how marketing activity to trade of livestock happened, and can understand how export-import transaction and its influencing factors.
2. SIG: At the end of lectures, students know and can explain about the law of International trade aspects

B. TOPICS: The law of International trade aspects

C. SUB-TOPICS: 1. the law of business aspects
2. The law of transaction of international business

D. Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Collecting homework's	Pay attention Writing Hand homework's over	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about the law of business aspects 2. Explain about The law of transaction of international business 3. Clarification the student answers	Attentively Writing Asking & answering	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain short conclusion of course 2. Explain the future course	Listening brainstorming	White Board, OHP/LCD, felt-tip marker

E. References

Amin. EKSPOR-IMPORT TEORI DAN PENERAPANNYA. 201. Penerbit PPM.
Nopirin. 1999. Ekonomi Internasional. Edisi ke-3. Penerbit BPFE. Jogyakarta.

SET OF STUDY PROGRAMS

Subject of study: Trade of Livestock and Its Production
Code of Lecture: IPE 406P
SCS : 2(2-0)
Time schedule : 2 x 100 minute
Meeting times : 15

L. GOALS

1. GIG: Student may understand and explain how marketing activity to trade of livestock happened, and can understand how export-import transaction and its influencing factors.
2. SIG: At the end of lectures, students know and can explain about export-import factors influencing

B. TOPICS: export-import factors influencing

3. C. SUB-TOPICS: 1. Marketing strategy to export commodities of agricultural
   2. The policy of export-import agricultural commodities

D. Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Collecting homework's	Pay attention Writing Hand homework's over	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about Marketing strategy to export commodities of agricultural 2. Explain about The policy of export-import agricultural commodities 5. Clarification the student answers	Attentively Writing Asking & answering Discussing	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain short conclusion of course 2. Explain the future course	Listening brainstorming	White Board, OHP/LCD, felt-tip marker

E. References

Hamdy Hady. 2001. Ekonomi Internasional : Teori dan Kebijakan Perdagangan Internasional. Buku i. Edisi ke-3. Penerbit Ghalia Indonesia. Jakarta.

Sabri. 2001. Ekonomi Internasional: Teori, Masalah dan Kebijakasanaannya. Penerbit BPFE UII. Yogyakarta.

COURSE	:	COOPERATIVE
COURSE CODE	:	IPE 402P
CREDIT	:	2(2-0)

COURSE OUT LINE

SUBJECT STUDIED : COOPERATIVE
CODE NO. : IPE 402P
SCS : 2(2-0)

SHORT DISCREPTION:
It is lectures to study term of cooperatives, historical of cooperatives, institution of moving cooperatives, organization and management of cooperatives, the farm enterprise, carrying out of cooperatives assets, the rest of cooperatives, and the global to specifics roles of cooperatives on national development.

GENERAL INSTRUCTION GOALS:
After joint in this lecture, student may understand about:

1. Term of cooperatives and its roles on national development
2. Essence of historical cooperatives aspect on national economic development
3. Institution cooperatives movement as organization and cooperative management.
4. Entrepreneurship, assets and profit of cooperatives.
5. Economics Based of the 1945 Constitution, cooperatives on globalization era and in the middle of national economics development.

REFERENCES:

1. Roy, E.P. 1981. Cooperative Development, Principle and Management. The Interstate Printers and Publisher Inc. Illenois.
2. Book, S.A. 1992. Cooperative Value in a Changing World. International Cooperative Allinace Genewa (diterjemahkan oleh Djabaruddin dengan judul Nilai-nilai Koperasi dalam Era Globalisasi. KJAN, Jakarta.
3. Djohan, D. 1997. Setengah Abad Pasang Surut Gerakan Koperasi Indonesia. Dekopin, Jakarta.
4. Djohan, D. 1996. Koperasi di tengah Arus Liberalisme Ekonomi. Formasi, Jakarta.
5. Djohan, D. 1997. Koperasi Indonesia Menghadapi Abad ke-21. Dekopin, Jakarta.
6. Tim Nasional Pengkajian Perkoperasian dan Pengusaha Kecil, Balitbang Koperasi dan Pengusaha Kecil. 1995/1996. Koperasi Sebagai Badan Usaha, Kajian Aspek Hukum dan Ekonomi.
7. Dekopin. 1992. Undang-Undang No. 25 Tahun 1992 tentang Perkoperasian. Dekopin, Jakarta.
8. Anonim. 1993. Pembinaan dan Pengembangan KUD. Sinar Grafika, Jakarta.
9. Anonim. 2001. Jatidiri Koperasi. Prinsip-prinsip Koperasi untuk Abad ke-21. Terjemahan-Pengantar Ibnoe Soedjono. Lembaga Studi Pengembangan Perkoperasian Indonesia (LSP2I)
10. Ibnoe Soedjono. 2001. Manajemen Profesional Berdasarkan Nilai-Nilai dalam Koperasi. Lembaga Studi Pengembangan Perkoperasian Indonesia (LSP2I)

NO.	SPECIFIC INSTRUCTION GOALS	TOPICS	SUB-TOPICS	TIME ESTIMATION
1.	At the end of lectures, students know and understand term of cooperatives, principles of cooperatives, based law of cooperatives in Indonesia	Introduction of Cooperatives	• Term and concept of cooperatives • Cooperatives based number 25 of the 1992 constitution.	2 x 50minutes
		Cooperatives principles	• Cooperatives ideas • Cooperatives principles	2 x 50minutes
		Based of cooperatives law in Indonesia	• Cooperatives on the 1945 Constitution • Cooperatives on Big Lines of National Course • The Law of Cooperatives • Statues and cooperatives rules of association.	2 x 50minutes
2.	At the end of lectures, students know and understand background and historical of cooperatives development expand to the world and Indonesia, specifically.	Historical of cooperatives	• The way of life on 2 BC century and the middle of Renaissance era • Pioneer of cooperatives to Modern era • Consumers cooperatives in England and founding of Rochdale cooperatives • Credit cooperatives in Germany	2 x 50minutes
		Cooperative expand	• Expanding and growth of three mazhab cooperation in the world • Expanding members ICA cooperation and its situation.	2 x 50minutes
		historical cooperatives in Indonesia	• Colonial's era, Japanese era to freedom of Indonesia era. • Cooperatives Indonesia on New era and reformation era • Autonomous cooperatives	2 x 50minutes
3.	At the end of lectures, students know and understand cooperatives movement, institution of cooperatives movement in Indonesia, relationship institution cooperatives movement and government	Institution of cooperatives movement	• Term cooperatives as institution	2 x 50minutes

			• Historical of cooperatives movement institution in Indonesia : – Role of government – Role of cooperative organization at national level	2 x 50minutes
4	At the end of lectures, students know and understand cooperatives establishment, set of organization of cooperatives, management of cooperatives	cooperatives establishment	• Right and duty of members • Cooperatives establishment	2 x 50minutes
		set of organization of cooperatives	• Members meeting • Board of cooperatives • Cooperatives supervisor	2 x 50minutes
		management of cooperatives	• Four elements of cooperatives management • Relationship between manager and board of cooperatives	2 x 50minutes
5.	At the end of lectures, students know and understand cooperatives establishment, set of organization of cooperatives, carrying out of cooperatives assets, and concept of the rest of cooperatives.	Farm enterprise, carrying out of cooperatives assets, and concept of the rest of cooperatives.	• Term and carrying out of cooperatives enterprise	2 x 50minutes
			• carrying out of cooperatives assets	2 x 50minutes
			• concept of the rest of cooperatives.	2 x 50minutes
6.	At the end of lectures, students know and understand economics based on the 1945 constitution, cooperatives on globalization era and middle of national economic development	Cooperatives role on national development	• economics based on article no. 33 of the 1945 constitution	2 x 50minutes
			• cooperatives on globalization era	2 x 50minutes
			• cooperatives in the middle of national economic development	2 x 50minutes

SET OF LECTU TURES

SUBJECT STUDIED : COOPERATIVE
CODE NO. : IPE 402P/ SCS: 2(2-0)
Time schedule : 6 x 50 minute
Lectures number : 1 – 3

GENERAL INSTRUCTION GOALS:
After joint in this lecture, student may understand about:

1. Term of cooperatives and its roles on national development
2. Essence of historical cooperatives aspect on national economic development
3. Institution cooperatives movement as organization and cooperative management.
4. Entrepreneurship, assets and profit of cooperatives.
5. Economics Based of the 1945 Constitution, cooperatives on globalization era and in the middle of national economics development.

GOALS
GIG: At the end of lectures, students know and understand about:

1. Sense of cooperatives and its roles on national development
2. Essence of historical cooperatives aspect on national economic development
3. Institution cooperatives movement as organization and cooperative management.
4. Entrepreneurship, assets and profit of cooperatives.
5. Economics Based of the 1945 Constitution, cooperatives on globalization era and in the middle of national economics development.
6. SIG: At the end of lectures, students know sense of cooperatives, cooperative principles, the law based of cooperative in Indonesia
7. TOPICS: Sense of cooperatives, cooperative principles, the law based of cooperative in Indonesia

SUB-TOPICS:

1. Term and concept of cooperatives
2. Idea and cooperative principles.
3. Cooperatives on the 1945 Constitution
4. The Law of Cooperatives
5. Statues and cooperatives rules of association.

LEARNING AND TEACHING ACTIVITY:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Contract of lectures 1-3	Pay attention Writing Pay attention	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about term and concept of cooperatives – Asking to student about term cooperative – Conclusion term cooperative 2. Explain about Idea and cooperative principles. – Asking to student what cooperative based in Indonesia – Classification student answer about kind of cooperative law 3. Explain about steps to arrange of statues and cooperatives rules of association.	Giving advice Asking –answering Writing	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain this short course 2. Identification the student problems 3. Explain the future course	Answering Listening	White Board, OHP/LCD, felt-tip marker

Evaluation:

References:

Roy, E.P. 1981. Cooperative Development, Principle and Management. The Interstate Printers and Publisher Inc. Illenois.

Tim Nasional Pengkajian Perkoperasian dan Pengusaha Kecil, Balitbang Koperasi dan Pengusaha Kecil. 1995/1996. Koperasi Sebagai Badan Usaha, Kajian Aspek Hukum dan Ekonomi.

SET OF LECTUTURES

SUBJECT STUDIED : COOPERATIVE
CODE NO. : IPE 402P/ SCS: 2(2-0)
Time schedule : 6 x 50 minute
Lectures number : 4 - 6

GIG:
After joint in this lecture, student may understand about:

1. Term of cooperatives and its roles on national development
2. Essence of historical cooperatives aspect on national economic development
3. Institution cooperatives movement as organization and cooperative management.
4. Entrepreneurship, assets and profit of cooperatives.
5. Economics Based of the 1945 Constitution, cooperatives on globalization era and in the middle of national economics development.

SIG: At the end of lectures, students know and understand background and historical of cooperatives development expand to the world and Indonesia, specifically.

TOPICS: Historical and spread of cooperative in Indonesia

SUB-TOPICS:

1. Historical of cooperative
2. Spread of cooperative
3. Born of cooperative in Indonesia

LEARNING AND TEACHING ACTIVITY:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Contract of lectures 4 - 6	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about born of cooperative history 2. Asking to student about background cooperative	Giving advice	White Board, OHP/LCD, felt-tip

	born 3. Conclusion student answer 4. Explain about history of cooperative in Indonesia	Asking –answering Writing	marker
Closing	1. Pointed random student to explain this short course 2. Identification the student problems 3. Explain the future course	Answering Listening	White Board, OHP/LCD, felt-tip marker

Evaluation:
Instrument used; check list

References:

Roy, E.P. 1981. Cooperative Development, Principle and Management. The Interstate Printers and Publisher Inc. Illenois.

Tim Nasional Pengkajian Perkoperasian dan Pengusaha Kecil, Balitbang Koperasi dan Pengusaha Kecil. 1995/1996. Koperasi Sebagai Badan Usaha, Kajian Aspek Hukum dan Ekonomi.

SET OF LECTUTURES

SUBJECT STUDIED : COOPERATIVE
CODE NO. : IPE 402P/ SCS: 2(2-0)
Time schedule : 6 x 50 minute
Lectures number : 7

GIG:
After joint in this lecture, student may understand about:
1. Term of cooperatives and its roles on national development
2. Essence of historical cooperatives aspect on national economic development
3. Institution cooperatives movement as organization and cooperative management.
4. Entrepreneurship, assets and profit of cooperatives.
5. Economics Based of the 1945 Constitution, cooperatives on globalization era and in the middle of national economics development.

- SIG: At the end of lectures, students know and understand as movement, historical of cooperatives movement institution in Indonesia relationship to cooperatives movement institution:

TOPICS: institution of cooperative movement in Indonesia,

SUB-TOPICS:
1. Sense of cooperatives institution
2. Institution of cooperative movement in Indonesia

LEARNING AND TEACHING ACTIVITY:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Contract of lectures 7	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about cooperative as institution 2. Explain about history of cooperative institution	Giving advice Asking –answering Writing	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain this short course 2. Identification the student problems Explain the future course	Answering Listening	White Board, OHP/LCD, felt-tip marker

Evaluation:
Instrument used; check list

References:

Roy, E.P. 1981. Cooperative Development, Principle and Management. The Interstate Printers and Publisher Inc. Illenois.
Djohan, D. 1997. Setengah Abad Pasang Surut Gerakan Koperasi Indonesia. Dekopin, Jakarta.
Djohan, D. 1996. Koperasi di tengah Arus Liberalisme Ekonomi. Formasi, Jakarta.
Djohan, D. 1997. Koperasi Indonesia Menghadapi Abad ke-21. Dekopin, Jakarta.
Tim Nasional Pengkajian Perkoperasian dan Pengusaha Kecil, Balitbang Koperasi dan Pengusaha Kecil. 1995/1996. Koperasi Sebagai Badan Usaha, Kajian Aspek Hukum dan Ekonomi.

SET OF LECTUTURES

SUBJECT STUDIED : COOPERATIVE
CODE NO. : IPE 402P/ SCS: 2(2-0)
Time schedule : 6 x 50 minute
Lectures number : 8 - 10

GIG:
After joint in this lecture, student may understand about:
6. Term of cooperatives and its roles on national development
7. Essence of historical cooperatives aspect on national economic development
8. Institution cooperatives movement as organization and cooperative management.
9. Entrepreneurship, assets and profit of cooperatives.
10. Economics Based of the 1945 Constitution, cooperatives on globalization era and in the middle of national economics development.

SIG: At the end of lectures, students know and understand cooperatives establishment, set of organization of cooperatives, management of cooperatives

TOPICS: cooperative established

SUB-TOPICS:
1. Right and duty of members
2. Cooperatives establishment

LEARNING AND TEACHING ACTIVITY:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	Explain all material Explain competency GIG and SIG Contract of lectures 7	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about Right and duty of members 2. Explain about Cooperatives establishment	Giving advice Asking –answering Writing	White Board, OHP/LCD, felt-tip marker

Closing	Pointed random student to explain this short course Identification the student problems Explain the future course	Answering Listening	White Board, OHP/LCD, felt-tip marker

Evaluation:
Instrument used; check list

References:

Roy, E.P. 1981. Cooperative Development, Principle and Management. The Interstate Printers and Publisher Inc. Illenois.
Djohan, D. 1997. Setengah Abad Pasang Surut Gerakan Koperasi Indonesia. Dekopin, Jakarta.
Djohan, D. 1996. Koperasi di tengah Arus Liberalisme Ekonomi. Formasi, Jakarta.
Djohan, D. 1997. Koperasi Indonesia Menghadapi Abad ke-21. Dekopin, Jakarta.
Tim Nasional Pengkajian Perkoperasian dan Pengusaha Kecil, Balitbang Koperasi dan Pengusaha Kecil. 1995/1996. Koperasi Sebagai Badan Usaha, Kajian Aspek Hukum dan Ekonomi.
Dekopin. 1992. Undang-Undang No. 25 Tahun 1992 tentang Perkoperasian. Dekopin, Jakarta.
Anonim. 1993. Pembinaan dan Pengembangan KUD. Sinar Grafika, Jakarta.

SET OF LECTUTURES

SUBJECT STUDIED : COOPERATIVE
CODE NO. : IPE 402P/ SCS: 2(2-0)
Time schedule : 2 x 50 minute
Lectures number : 11

GIG:
After joint in this lecture, student may understand about:

1. Term of cooperatives and its roles on national development
2. Essence of historical cooperatives aspect on national economic development
3. Institution cooperatives movement as organization and cooperative management.
4. Entrepreneurship, assets and profit of cooperatives.
5. Economics Based of the 1945 Constitution, cooperatives on globalization era and in the middle of national economics development.

SIG: At the end of lectures, students know and understand cooperatives establishment, set of organization of cooperatives, carrying out of cooperatives assets, and concept of the rest of cooperatives.

TOPICS: Kinds of cooperative business, carrying out of cooperatives assets, and concept of the rest of cooperatives.
Learning and teaching activity:

SUB-TOPICS:

1. Kinds of cooperative business,
2. carrying out of cooperatives assets,
3. Concept of the rest of cooperatives.

Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Contract of lectures 7	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about Kinds of cooperative business,	Giving advice	White Board, OHP/LCD, felt-

	2. Explain about carrying out of cooperatives assets, 3. Explain about Concept of the rest of cooperatives. 4. Student comment about the materials	Asking –answering Writing	tip marker
Closing	1. Pointed random student to explain this short course 2. Identification the student problems 3. Explain the future course	Answering Listening	White Board, OHP/LCD, felt-tip marker

Evaluation:
Instrument used; check list

References:

Roy, E.P. 1981. Cooperative Development, Principle and Management. The Interstate Printers and Publisher Inc. Illenois.
Djohan, D. 1997. Setengah Abad Pasang Surut Gerakan Koperasi Indonesia. Dekopin, Jakarta.
Djohan, D. 1996. Koperasi di tengah Arus Liberalisme Ekonomi. Formasi, Jakarta.
Djohan, D. 1997. Koperasi Indonesia Menghadapi Abad ke-21. Dekopin, Jakarta.
Tim Nasional Pengkajian Perkoperasian dan Pengusaha Kecil, Balitbang Koperasi dan Pengusaha Kecil. 1995/1996. Koperasi Sebagai Badan Usaha, Kajian Aspek Hukum dan Ekonomi.
Dekopin. 1992. Undang-Undang No. 25 Tahun 1992 tentang Perkoperasian. Dekopin, Jakarta.
Anonim. 1993. Pembinaan dan Pengembangan KUD. Sinar Grafika, Jakarta.

SET OF LECTUTURES

SUBJECT STUDIED : COOPERATIVE
CODE NO. : IPE 402P/ SCS: 2(2-0)
Time schedule : 2 x 50 minute
Lectures number : 12

GIG:
After joint in this lecture, student may understand about:

1. Term of cooperatives and its roles on national development
2. Essence of historical cooperatives aspect on national economic development
3. Institution cooperatives movement as organization and cooperative management.
4. Entrepreneurship, assets and profit of cooperatives.
5. Economics Based of the 1945 Constitution, cooperatives on globalization era and in the middle of national economics development.

SIG: At the end of lectures, students know and understand economics based on the 1945 constitution, cooperatives on globalization era and middle of national economic development

TOPICS: Cooperatives role on national development

SUB-TOPICS:

1. economics based on article no. 33 of the 1945 constitution
2. cooperatives on globalization era
3. cooperatives in the middle of national economic development

LEARNING AND TEACHING ACTIVITY:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Contract of lectures 7	Pay attention Writing	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about economics based on article no. 33 of the 1945 constitution	Giving advice Asking –answering	White Board, OHP/LCD, felt-tip marker

	2. Explain about cooperatives on globalization era 3. Explain about cooperatives in the middle of national economic development 4. Student comment about the materials	Writing	
Closing	4. Pointed random student to explain this short course 5. Identification the student problems 6. Explain the future course	Answering Listening	White Board, OHP/LCD, felt-tip marker

Evaluation:
Instrument used; check list

References:

Roy, E.P. 1981. Cooperative Development, Principle and Management. The Interstate Printers and Publisher Inc. Illenois.
Djohan, D. 1997. Setengah Abad Pasang Surut Gerakan Koperasi Indonesia. Dekopin, Jakarta.
Djohan, D. 1996. Koperasi di tengah Arus Liberalisme Ekonomi. Formasi, Jakarta.
Djohan, D. 1997. Koperasi Indonesia Menghadapi Abad ke-21. Dekopin, Jakarta.
Tim Nasional Pengkajian Perkoperasian dan Pengusaha Kecil, Balitbang Koperasi dan Pengusaha Kecil. 1995/1996. Koperasi Sebagai Badan Usaha, Kajian Aspek Hukum dan Ekonomi.
Dekopin. 1992. Undang-Undang No. 25 Tahun 1992 tentang Perkoperasian. Dekopin, Jakarta.
Anonim. 1993. Pembinaan dan Pengembangan KUD. Sinar Grafika, Jakarta.

COURSE	:	LIVESTOCK DEVELOPMENT PLAN
COURSE CODE	:	
CREDIT	:	2 (2-0)

COURSE OUT LINE

NAME OF LECTURES : LIVESTOCK DEVELOPMENT PLAN
CODE NO. : IPE 313P
SCS : 2(2-0)
PROGRAM STUDY : S1 SOSICIAL HUSBANDRY SCIENCE, TECHNOLOGI OF LIVESTOCK PRODUCTION, NUTRITION & FEED ANIMAL

SHORT DISCREPTION:
It is lectures to study and discussion theory and concept planning, scope, goals, basic, process and approach system of planning, to analyzing livestock development plan, and programs livestock development plan.

GENERAL INSTRUCTION GOALS:
After joint in this lecture, student may understand and able to explain the theory of livestock development plan so that can make models of livestock development plan.

REFERENCES:
DST ....(PASTE TO MASTER)

NO.	SPECIFIC INSTRUCTION GOALS	TOPICS	SUB-TOPICS	TIME ESTIMATION
1	At the end of lectures, students know and understand concept of livestock development plan	Introduction	• Concept of general development planning and specially livestock development plan. • Scope of livestock development plan.	2 x 100 minutes
2	At the end of lectures, students know and understand basic of livestock development plan.	Based, process and the goals of planning,	• Basics to make plans • Background of livestock development plan. • Steps to livestock development planning. • Basic elements on livestock development planning process. • Goals of livestock development planning.	3x 100 minutes
3	At the end of lectures, students know and understand planning function and approach system of livestock development plans.	Function and approach system of livestock development plans.	• Function of livestock development plans. • Basic problems of livestock development. • Approach system of livestock development plans.	3x 100 minutes

4	At the end of lectures, students know/understand and able to livestock development analyzing	Analyze of livestock development plans	• Livestock to its production needs and stock analyze. • Potential development and expansion analyzing • Trend analyze on livestock development. • SWOT analyze on livestock development.	4x 100 minutes
5	At the end of lectures, students know/understand and able to plan livestock development programs.	Planning of the livestock development programs.	• National planning of the livestock development programs. • Province planning of the livestock development programs. • Process of planning of the livestock development programs.	3x 100 minutes

References:

Dirjen
Hasibuan
Pulungan

SET OF STUDY PROGRAMS

Subject of study : Livestock Development Plan
Code of Study : IPE 313P
SCS : 2(2-0)
Time schedule : 2 x 100 minute
Meeting times : 1 & 2

GOALS

1. GIG: student may understand and able to explain the theory of livestock development plan so that can make models of livestock development plan.
2. SIG: At the end of lectures, students know and can explain sense of livestock development plan

TOPICS : Introduction

SUB-TOPICS:

1. Concept of general development planning and livestock development plan.
2. Scope of livestock development plan

Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Contract of lectures	Pay attention Writing Pay attention	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain Concept of general development planning 2. Explain scope of livestock development plan 3. Clarification the student answers 4. to give guideline	Giving advice Asking –answering Writing	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain this short course 2. Identification the student problems 3. Explain the future course	Answering Listening	White Board, OHP/LCD, felt-tip marker

References:

Dirjen
Hasibuan
Pulungan

SET OF STUDY PROGRAMS

Subject of study: Livestock Development Plan
Code of Study: IPE 313P
SCS : 2(2-0)
Time schedule : 3 x 100 minute
Meeting times : 2, 4, and 5

GOALS
1. GIG: At the end of lectures, students know and understand theory livestock development plan and able to make livestock planning
2. SIG: At the end of lectures, students know and can explain basics, process and goals of plan

TOPICS : Basics, Process And Goals Of Plan

SUB-TOPICS:
1. Basics to make plans
2. Background of livestock development plan.
3. Steps to livestock development planning.
4. Basic elements on livestock development planning process.
5. Goals of livestock development planning

LEARNING AND TEACHING ACTIVITY:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Contract of lectures	Pay attention Writing Pay attention	White Board, OHP/LCD, felt-tip marker
Presentation	3. Explain based concept to make planning 4. Explain how background of livestock planning is needed	Giving advice Asking –answering	White Board, OHP/LCD, felt-tip marker
	5. Explain the steps process of livestock development plan 3. Clarification the student answers 4. to give guideline	Writing	

Closing	4. Pointed random student to explain this short course 5. Identification the student problems 6. Explain the future course	Answering Listening	White Board, OHP/LCD, felt-tip marker

References:

Atmadilaga
Dirjen
Hasibuan
Pulungan

SET OF STUDY PROGRAMS

Subject of study: Livestock Development Plan
Code of Study: IPE 313P
SCS : 2(2-0)
Time schedule : 3 x 100 minute
Meeting times : 6, 7 & 8

GOALS
1. GIG: At the end of lectures, students know and understand theory livestock development plan and able to make livestock planning
2. SIG: At the end of lectures, students know and can explain management and function of enterprise to run

TOPICS : Function and approach system of livestock development plans.

SUB-TOPICS:
1. Function of livestock development plans.
2. Basic problems of livestock development.
3. Approach system of livestock development plans.

LEARNING AND TEACHING ACTIVITY:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Contract of lectures	Pay attention Writing Pay attention	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about function of livestock development plans. 2. Explain about basic problems of livestock development. 3. Explain about approach system of livestock development plans.	Giving advice Asking –answering Writing	White Board, OHP/LCD, felt-tip marker
Closing	7. Pointed random student to explain this short course 8. Identification the student problems 9. Explain the future course	Answering Listening	White Board, OHP/LCD, felt-tip marker

References:
Atmadilaga
Dirjen
Hasibuan
Pulungan

SET OF STUDY PROGRAMS

Subject of study: Livestock Development Plan
Code of Study: IPE 313P
SCS : 2(2-0)
Time schedule : 3 x 100 minute
Meeting times : 9, 10, 11 and 12

GOALS
1. GIG: At the end of lectures, students know and understand theory livestock development plan and able to make livestock planning
2. SIG: At the end of lectures, students know and able to analyze livestock development plan

TOPICS: Analyzing livestock development plan

SUB-TOPICS:
1. Livestock to its production needs and stock analyze.
2. Potential development and expansion analyzing

LEARNING AND TEACHING ACTIVITY:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Contract of lectures	Pay attention Writing Pay attention	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain the livestock and its production needs and stock analyze. 2. Explain the potential development and expansion analyzing 3. Explain the trend analyze on livestock development. 4. Explain SWOT analyze on livestock development.	Giving advice Asking –answering Writing	White Board, OHP/LCD, felt-tip marker
Closing	1. Pointed random student to explain this short course 2. Identification the student problems 3. Explain the future course	Answering Listening	White Board, OHP/LCD, felt-tip marker

References:
Atmadilaga
Dirjen
Hasibuan
Pulungan

SET OF STUDY PROGRAMS

Subject of study: Livestock Development Plan
Code of Study: IPE 313P
SCS : 2(2-0)
Time schedule : 3 x 100 minute
Meeting times : 9, 10, 11 and 12

GOALS

1. GIG: At the end of lectures, students know and understand theory livestock development plan and able to make livestock planning
2. SIG: At the end of lectures, students know and able to make livestock development plan/programs

TOPICS: Programs livestock development plan

SUB-TOPICS:

1. National planning of the livestock development programs.
2. Province planning of the livestock development programs.
3. Process of planning of the livestock development programs.

Learning and teaching activity:

STEPS	TEACHING ACTIVITY	STUDENT ACTIVITY	MEDIA AND TEACHING TOOLS
Introduction	1. Explain all material 2. Explain competency GIG and SIG 3. Contract of lectures	Pay atte ıtion Writing Pay attention	White Board, OHP/LCD, felt-tip marker
Presentation	1. Explain about National planning of the livestock development programs. 2. Explain about Province planning of the livestock development programs. 5. Explain about Process of planning of the livestock development programs.	Giving advice Asking –answering Writing	White Board, OHP/LCD, felt-tip marker

Closing	4. Pointed random student to explain this short course 5. Identification the student problems 6. Explain the future course	Answering Listening	White Board, OHP/LCD, felt-tip marker

References:

Atmadilaga
Dirjen
Hasibuan
Kertonegoro
Koontz
Manullang
Pulungan

COURSE	:	Agricultural Society Empowering
COURSE CODE	:	
CREDIT	:	2 (2-0)

OUTLINE OF TEACHING PROGRAM

Subject	:	Agricultural Society Empowering
Code /SKS	:	SKS : 2(2-0)
Description	:	Agricultural Society Empowering is a course matter with 2 SKS which propose the importance of society empowerment in relation with the national development. After attending the course, students are to be hoped to be aware of social-agricultural problems, experienced with empowering theories and have commitment and sensitivity of the poor. ASE is related to other social sciences, especially rural sociology, social change and agricultural extension
General Instruction	:	Agricultural Society Empowering consisting of matters: rural-agricultural problems, poverty in rural societies, biases of rural development, principles of empowerment, stakeholders and its function, appropriate technology, enhancing participation, PRA (Participatory Rural Development) techniques.
References	:	Abers, Rebecca Neaera. 2000 Inventing Local Democracy. Grassroots Politics in Brazil. Lynne Rienner. London.

Ahnaf, Arizal dan kawan. Pemantauan Perkembangan Kesejahteraan Masyarakat Pemanfaatan Data Survei Sosial Ekonomi Nasional , BPS dan UNFPA. Jakarta

Badan Pusat Statistik. 1998. Kumpulan Bahan-Bahan Penyusunan Indikator Kesejahteraan Rakyat. BPS. Jakarta

BMZ dan GTZ. 1984. Regional Rural Development. Guiding Principles. GTZ.Eschborn.

Budiman Arief dan Ph. Quarles van Ufford. 1988. Krisis Tersembunyi dalam Pembangunan: Birokrasi birokrasi dalam Pembangunan. Gramedia. Jakarta.

Cernea, Michael M. 1988. Mengutamakan Manusia dalam Pembangunan. Variabel-variabel Sosiologi di dalam Pembangunan Pedesaan. UI Press. Jakarta

Chambers. Robert 1983. Rural Development. Putting the Last First. Longman Scientific and Technical. Essex.

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F.A.O. The Peasants' Charter. The Declaration of Principles and Programme Action. FAO Rome.

Freire, Paulo. 1990. Pedagogy of the Oppressed. Penguin Books. Middlesex.

Fuerstein, Marie-Therese. 1986. Partners in Evaluation. Evaluating Development and Community Programmes with Participants.

Hagul, Peter. (ed.) 1985. Pembangunan Desa dan Lembaga Swadaya Masyarakat. Yayasan Dian Desa. Yogyakarta

Hunter, Guy; A. Hugh Bunting dan Anthony Bottrall. 1974. Policy and Practice in Rural Development The English Language Book Society. London

Hidayat, Wisnu; Nyimas Dwi Koryati dan Hessel Nogi S. Tangkilisan. 2004. Pembangunan Partisipatif. YPAPI. Yogyakarta

Jomo, Frans Wiryanto. 1986 Membangun Masyarakat. Buku Pegangan Bagi Pekerja Pembangunan Masyarakat.. Penerbit Alumni. Bandung

Korten, D. C. dan Sjahrir. 1988. Pembangunan Berdimensi Kèrakyatan.. yayasan Obor. Jakarta.

Marsden, David dan Peter Oakley. 1990. Evaluating Social Development Projects. Development Guidlines No 5. Oxfam. Oxford.

Mosher, A. T. 1974.Menciptakan Struktur Pedesaan Progresif. CV. Yasaguna. Jakarta.

Mosher, A. T. 1981.Three Ways to Spur Agricultural Growth TATA McGraw-Hill. New Delhi

Oakley, Peter 1991. Project with People. The Practice of Participation in Rural Development. ILO> Geneva.

Rudito, Bambang dan Arif Budimanta. 2003. Metode dan Teknik Pengelolaan Community Development. ICSD. Jakarta.

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Scott, James C. 1981. Moral Ekonomi Petani. Pergolakan dan Subsistensi di Asia Tenggara. LP3ES Jakarta.

Slocum, Rachel dkk (eds) 1995. Power, Process and Participation.: Tools for Change. Intermediate Technology Publication Ltd. London.

Sumaryadi, I Nyoman. 2005. Perencanaan Pembangunan Daerah Otonom dan Pemberdayaan Masyarakat. Citra Utama. Jakarta.

Vries, E. De 1972. Masalah Masalah Petani Jawa. BhrataraJakarta

Wibawa, Samodra (ed.). 1991. Pembengunan Berkelanjutan. Konsep dan Kasus. Tiara Wacana. Yogyakarta

No.	Specific Instruction	Topic	Sub topics	Duration	References
1.	After studying this topic, students be knowledgeable about and able to explain definition, concepts and character of people empowering development	Definition, concepts and character of people empowering development	Definition of development Definition of empowering development Concepts and character of people empowering development	2x50 minutes	
2.	Students recognize the character of rural-agricultural society, be familiar with their real problems	Character of rural-agricultural society, be familiar with their real problems	Character of rural-agricultural society 1.Rural people problems viewed from economic and politics problrms	2x50 minutes	
3.	Students be aware of rural poverty and able to explain the poverty theories	Rural poverty	Who want to be poor? What is poverty, and included in it? Why they are poor? Are there any solution?	2x50 minutes	
4	Students be aware of and able to describe the practical biases of rural social development	Practical biases of rural social development	Spatial, seasional, projrcts, individual, gender, present, elite and profrssional biases	2x50 minutes	
5	Students be able to explain principles of planning, target group selection, transparency, accountability, participation, sustainability, gender sensitivity	Principles of empowering development program	Principles of empowering development program : planning, target group selection, transparency, accountability, participation, sustainability, gender sensitivity	2x2x50 minutes	
6	Students be able to explain the role	Role and function of	The role and function of		

	and function of development agents and make Venn diagram of development stakeholders	development agents	development agents Venn diagram of development stakeholders	2x50 minutes	
7	Students be recognized of appropriate technology, experienced of the use of it including the use of local resources and local wisdom.	Appropriate technology and the use of local resources and local wisdom.	Definition of appropriate technology The use of local resources and local wisdom.	2x2x50 minutes t	
8	Students be familiar and experienced of the practice of Participatory Rural Appraisal (PRA) techniques	Participatory Rural Appraisal (PRA) techniques	RRA (Rural Rapid Appraisal) PRA PRA techniques	2x2x50 minutes	
9	Students know how to compose criteria to evaluate the practice of people empowering program	Criteria of people empowering program evaluation	Single and composite indicator Indicators to evaluate emowering program Seeking for indicators fitted with tematc program	2x50 minutes	
10	Students be familiar of monitoring and evaluation concepts and able to compose participatory program monitoring end evaluation	Participatory program monitoring end evaluation	Concepts, theory and practice of monitoring and evaluation of participatory program	2x50 minutes	

Abers, Rebecca Neaera. 2000 Inventing Local Democracy. Grassroots Politics in Brazil. Lynne Rienner. London.
Ahnaf, Arizal dan kawan. Pemantauan Perkembangan Kesejahteraan Masyarakat Pemanfaatan Data Survei Sosial Ekonomi Nasional , BPS dan UNFPA. Jakarta
Badan Pusat Statistik. 1998. Kumpulan Bahan-Bahan Penyusunan Indikator Kesejahteraan Rakyat. BPS. Jakarta
BMZ dan GTZ. 1984. Regional Rural Development. Guiding Principles. GTZ.Eschborn.
Budiman Arief dan Ph. Quarles van Ufford. 1988. Krisis Tersembunyi dalam Pembangunan: Birokrasi birokrasi dalam Pembangunan. Gramedia. Jakarta.
Cernea, Michael M. 1988. Mengutamakan Manusia dalam Pembangunan. Variabel-variabel Sosiologi di dalam Pembangunan Pedesaan. UI Press. Jakarta
Chambers. Robert 1983. Rural Development. Putting the Last First. Longman Scientific and Technical. Essex.
Drilon, J. D. Jr dan G. F. Saguiguit (eds) Acclerating Agricultural Development. SEARCA. Laguna
F.A.O. The Peasants' Charter. The Declaration of Principles and Programme Action. FAO Rome.
Freire, Paulo. 1990. Pedagogy of the Oppressed. Penguin Books. Middlesex.
Fuerstein, Marie-Therese. 1986. Partners in Evaluation. Evaluating Development and Community Programmes with Participants.
Hagul, Peter. (ed.) 1985. Pembangunan Desa dan Lembaga Swadaya Masyarakat. Yayasan Dian Desa. Yogyakarta
Hunter, Guy; A. Hugh Bunting dan Anthony Bottrall. 1974. Policy and Practice in Rural Development The English Language Book Society. London
Hidayat, Wisnu; Nyimas Dwi Koryati dan Hessel Nogi S. Tangkilisan. 2004. Pembangunan Partisipatif. YPAPI. Yogyakarta
Jomo, Frans Wiryanto. 1986 Membangun Masyarakat. Buku Pegangan Bagi Pekerja Pembangunan Masyarakat.. Penerbit Alumni. Bandung
Korten, D. C. dan Sjahrir. 1988. Pembangunan Berdimensi Kerakyatan.. yayasan Obor. Jakarta.
Marsden, David dan Peter Oakley. 1990. Evaluating Social Development Projects. Development Guidlines No 5. Oxfam. Oxford.
Mosher, A. T. 1974.Menciptakan Struktur Pedesaan Progresif. CV. Yasaguna. Jakarta.
Mosher, A. T. 1981.Three Ways to Spur Agricultural Growth TATA McGraw-Hill. New Delhi
Oakley, Peter 1991. Project with People. The Practice of Participation in Rural Development. ILO> Geneva.
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Vries, E. De 1972. Masalah Masalah Petani Jawa. BhrataraJakarta
Wibawa, Samodra (ed.). 1991. Pembengunan Berkelanjutan. Konsep dan Kasus. Tiara Wacana. Yogyakarta

STATUS	:	
PROG. STUDI	:	S-1 Sosial Ekonomi
HARI	:	
WAKTU	:	
RUANG	:	
DOSEN	:	1. **Ir. Bambang Trisetyo EdDy, MS,MA (TSE) (Penanggung Jawab)** 2. **Ir. Sriyanto Dwi Djatmiko, MS (SRY)**

SILABI:

Agricultural Society Empowering is a course matter with 2 SKS which propose the importance of society empowerment in relation with the national development. After attending the course, students are to be hoped to be aware of social-agricultural problems, experienced with empowering theories and have commitment and sensitivity of the poor. ASE is related to other social sciences, especially rural sociology, social change and agricultural extension

TUJUAN INTRUKSIONAL UMUM (TIU) :

Agricultural Society Empowering consisting of matters: rural-agricultural problems, poverty in rural societies, biases of rural development, principles of empowerment, stakeholders and its function, appropriate technology, enhancing participation, PRA (Participatory Rural Development) techniques.

RENCANA PERKULIAHAN :

No	Meetings	Topics	Teacher
1	1	Definition, concepts and character of people empowering development	TSE
2	2	Character of rural-agricultural society, be familiar with their real problems	TSE
3	3	Rural poverty	TSE
4	4	Practical biases of rural social development	TSE
5	5-6	Principles of empowering development program	TSE
6	7	Role and function of development agents	TSE
	8	Appropriate technology and the use of local resources and local wisdom.	
7	9-10	Participatory Rural Appraisal (PRA) techniques	SRY
	11-12	Criteria of people empowering program evaluation	SRY
	13	Participatory program monitoring end evaluation	
	14	Monitoring dan Evaluasi Kegiatan Pemberdayaan Masyarakat	SRY

Criteria :

1. Mid Semester Test : 50 %
2. Practical works : - %
3. Final Exam Semester : 50 %

Jumlah : 100%

REFERENCES :

Abers, Rebecca Neaera. 2000 Inventing Local Democracy. Grassroots Politics in Brazil. Lynne Rienner. London.

Ahnaf, Arizal dan kawan. Pemantauan Perkembangan Kesejahteraan Masyarakat Pemanfaatan Data Survei Sosial Ekonomi Nasional , BPS dan UNFPA. Jakarta

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Freire, Paulo. 1990. Pedagogy of the Oppressed. Penguin Books. Middlesex.
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TEACHING AGENDA

Subject : Agricultural Society Empowering
Code : / 2 (2–0) SKS
Duration : 12 – 14 x 2 x 50 minutes

Description :
Agricultural Society Empowering (ASE) is a course with 2 SKS which propose the importance of society empowerment in relation with the national development. After attending the course, students are to be hoped to be aware of social-agricultural problems, experienced with empowering theories and have commitment and sensitivity of the poor. ASE is related to other social sciences, especially rural sociology, social change and agricultural extension.

General Instruction :

Agricultural Society Empowering consisting of subject matters: rural-agricultural problems, poverty in rural societies, biases of rural development, principles of empowerment, stakeholders and its function, appropriate technology, enhancing participation, PRA (Participatory Rural Development) techniques.

TEACHING AGENDA I

General Instruction
After studying this topic, students know about and able to explain definition, concepts and character of people empowering development

Specific Instruction
Students be able to explain the definition of development, empowering development and principles of rural society participatory development

Topic : Definition, concepts and character of people empowering development

Sub topics :
Definition of development
Definition of empowering development
Concepts and character of people empowering development

Teaching activities

No.	Phases	Lecturer Activities	Students activities	Media and teaching tools
1.	Introduction	Explaining scope of material Explaining instructional objectives Explaining Learning Contract	Listening, Making notation, Responding	Whiteboard OHP LCD
2.	Presentation	Discussing definition of development Discussing definition of empowering development Discussing concepts and character of people	Listening, discussing, making notation	Whiteboard OHP LCD

		empowering development		
3.	Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	Whiteboard OHP LCD

TEACHING AGENDA II

General Instruction

Students recognize the character of rural-agricultural society, be familiar with their real problems

Specific Instruction

Students recognize the character of rural-agricultural society, be familiar with their real problems viewed from many aspect of life.

Topic: Character of rural-agricultural society, be familiar with their real problems

Sub topics :

Character of rural-agricultural society

Rural people problems viewed from economic and politics problems

Teaching activities

No.	Phases	Lecturer Activities	Students activities	Media and teaching tools
1.	Introduction	Explaining scope of material Explaining instructional objectives	Listening, Making notation, Responding	Whiteboard OHP LCD
2.	Presentation	Facilitating students to discuss of character of rural-agricultural society Facilitating students to discuss of Rural people problems Explaining theories of rural problems	Listening, discussing, making notation	Whiteboard OHP LCD
3.	Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	Whiteboard OHP LCD

TEACHING AGENDA III

General Instruction

Students aware of rural poverty and able to explain the poverty theories

Specific Instruction

Students understand and aware of rural poverty, and able to explain the theory of poverty history, the effect of poverty

Topic: Rural poverty

Sub topics :

Who want to be poor?
What is poverty, and included in it?
Why they are poor?
Are there any solution?

Teaching activities

No.	Phases	Lecturer Activities	Students activities	Media and teaching tools
1.	Introduction	Explaining scope of material Explaining instructional objectives	Listening, Making notation, Responding	Whiteboard OHP LCD
2.	Presentation	Facilitating students to discuss some topics: Who want to be poor? What is poverty, and included in it? Why they are poor? Are there any solution?	Listening, discussing, making notation	Whiteboard OHP LCD
3.	Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	Whiteboard OHP LCD

TEACHING AGENDA IV

General Instruction

Students aware of and able to describe the practical biases of rural social development

Specific Instruction

Students aware of and able to describe the practical biases of rural social development, and able to describe some examples the biased practices

Topic: Practical biases of rural social development

Sub topics : Spatial, seasional, projrcts, individual, gender, present, elite and profrssional biases

Teaching activities

No.	Phases	Lecturer Activities	Students activities	Media and teaching tools
1.	Introduction	Explaining scope of material Explaining instructional objectives	Listening, Making notation, Responding	Whiteboard OHP LCD
2.	Presentation	Explaining theories and give some examples of Practical biases of rural social development Facilitating students to discuss Spatial, seasional, projrcts, individual, gender, present, elite and profrssional biases	Listening, discussing, making notation	Whiteboard OHP LCD
3.	Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	Whiteboard OHP LCD

TEACHING AGENDA V

General Instruction
Students be able to explain principles of planning, target group selection, transparency, accountability, participation, sustainability, gender sensitivity

Tujuan Instruksi Khusus (TIK)
Students be able to explain principles of planning, target group selection, transparency, accountability, participation, sustainability, gender sensitivity as the common principles of empowering program

Topic: Principles of empowering development program

Sub topics :
Principles of empowering development program : planning, target group selection, transparency, accountability, participation, sustainability, gender sensitivity

Teaching activities

No.	Phases	Lecturer Activities	Students activities	Media and teaching tools
1.	Introduction	Explaining scope of material Explaining instructional objectives	Memperhatikan dan merespon Memperhatikan dan merespon	Whiteboard OHP LCD
2.	Presentation	Facilitating students to discuss principles of empowering developmentt Explaining theories and give some examples of principles of planning, target group selection, transparency, accountability, participation, sustainability, gender sensitivity	Memperhatikan dan merespon	Whiteboard OHP LCD
3.	Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Memperhatikan dan merespon Mengerjakan tugas di rumah	Whiteboard OHP LCD

TEACHING AGENDA VI

General Instruction

Students be able to explain the role and function of development agents and make Venn diagram of development stakeholders

Specific Instruction

Students be able to explain the role and function of development agents, able to identify each stakeholders and make Venn diagram of development stakeholders

Topic: Role and function of development agents

Sub topics :

The role and function of development agents
Venn diagram of development stakeholders

Teaching activities

No.	Phases	Lecturer Activities	Students activities	Media and teaching tools
1.	Introduction	Explaining scope of material Explaining instructional objectives	Listening, Making notation, Responding	Whiteboard OHP LCD
2.	Presentation	Facilitating students to discuss Role and function of development agents Explaining theories and give some examples of the role and function of development agents, Venn diagram of development stakeholders	Listening, discussing, making notation	Whiteboard OHP LCD
3.	Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	Whiteboard OHP LCD

TEACHING AGENDA VII

General Instruction

Students be recognized of appropriate technology, experienced of the use of it including the use of local resources and local wisdom.

Specific Instruction

Students recognized of and able to explain the definition of appropriate technology, selected the target group of the use of appropriate technology, experienced of the use of it including the use of local resources and local wisdom.

Topic: Appropriate technology and the use of local resources and local wisdom.

Sub topics :

Definition of appropriate technology
The use of local resources and local wisdom.

Teaching activities

No.	Phases	Lecturer Activities	Students activities	Media and teaching tools
1.	Introduction	Explaining scope of material Explaining instructional objectives	Listening, Making notation, Responding	Whiteboard OHP LCD
2.	Presentation	Explaining theories and give some examples of appropriate technology and the use of local resources and local wisdom Facilitating students to discuss definition of appropriate technology, the use of local resources and local wisdom	Listening, discussing, making notation	Whiteboard OHP LCD
3.	Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	Whiteboard OHP LCD

TEACHING AGENDA VIII

General Instruction

Students be familiar and experienced of the practice of Participatory Rural Appraisal (PRA) techniques

Specific Instruction

Students be familiar with Rural Rapid Appraisal (RRA), understand of Participatory Rural Appraisal (PRA) principles and experienced of the practice of Participatory Rural Appraisal (PRA) techniques in identifying the rural-social problems

Topic: Participatory Rural Appraisal (PRA) techniques

Sub topics :

RRA (Rural Rapid Appraisal)
PRA
PRA techniques
.

Teaching activities

No.	Phases	Lecturer Activities	Students activities	Media and teaching tools
1.	Introduction	Explaining scope of material Explaining instructional objectives	Listening, Making notation, Responding	Whiteboard OHP LCD
2.	Presentation	Explaining theories and give some examples of Participatory Rural Appraisal (PRA) techniques Facilitating students to discuss RRA (Rural Rapid Appraisal) PRA PRA techniques	Listening, discussing, making notation	Whiteboard OHP LCD
3.	Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	Whiteboard OHP LCD

TEACHING AGENDA IX

General Instruction

Students know how to compose criteria to evaluate the practice of people empowering program

Tujuan Instruksi Khusus (TIK)

Students understand the meaning of indicator, types of indicators, and know how to compose criteria to evaluate the practice of people empowering program

Topic: Indicator of people empowering program evaluation

Sub topics :

Single and composite indicator
Indicators to evaluate emowering program
Seeking for indicators fitted with thematic program

Teaching activities

No.	Phases	Lecturer Activities	Students activities	Media and teaching tools
1.	Introduction	Explaining scope of material Explaining instructional objectives	Listening, Making notation, Responding	Whiteboard OHP LCD
2.	Presentation	Explaining theories and give some examples of Indicator of people empowering program evaluation Facilitating students to discuss Single and composite indicator Indicators to evaluate emowering program Seeking for indicators fitted with thematic program	Listening, discussing, making notation	Whiteboard OHP LCD
3.	Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	Whiteboard OHP LCD

TEACHING AGENDA XI

General Instruction

Students able to compose participatory program monitoring end evaluation

Specific Instruction

Students be familiar of monitoring and evaluation concepts and able to compose participatory program monitoring end evaluation
Setelah mempelajari materi ini mahasiswa diharapkan dapat memahami konsep-konsep monitoring dan evaluasi, kemudian menyusun perencanaan monitoring dan evaluasi untuk kegiatan berperanserta

Topic: Participatory program monitoring end evaluation

Sub topics :
Concepts, theory and practice of monitoring and evaluation of participatory program

Teaching activities

No.	Phases	Lecturer Activities	Students activities	Media and teaching tools
1.	Introduction	Explaining scope of material Explaining instructional objectives	Listening, Making notation, Responding	Whiteboard OHP LCD
2.	Presentation	Explaining theories and give some examples of : Participatory program monitoring end evaluation Facilitating students to discuss Concepts, theory and practice of monitoring and evaluation of participatory program	Listening, discussing, making notation	Whiteboard OHP LCD
3.	Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	Whiteboard OHP LCD

COURSE	:	SOCIO-ECONOMICS RESEARCH METHODOLOGY
COURSE CODE	:	
CREDIT	:	3 (2-1)

OUTLINE OF TEACHING PROGRAMS

SUBJECT	:	**SOCIO-ECONOMICS RESEARCH METHODOLOGY**
CODE	:	**PTE-209. P / 3 (2-1)**
DESCRIPTION	:	Study and discuss various aspects needed in conducting research in the field of agricultural socio-economics; such as types of social-economics research, research processes, survey, sampling methods, constructing hypotheses, data collecting methods, data analysis, proposal and report
GENERAL INSTRUCTION	:	After attending the lecture, students will know, understand and capable in applying the principles of research method in conducting and making scientific works (PKL, Skripsi etc) in the fields of agricultural socio-economics.
REFERENCES	:	1. Bambang Sudarmoyo, 1993. ***Metodologi Penelitian Bagi Mahasiswa Ilmu-Ilmu Pertanian dan Biologi.*** BP-UNDIP, Semarang. 2. J. Supranto, 1983. **Ekonometrik.** LPFE-UI, Jakarta. 3. Koentjaraningrat, 1997. **Motode-Metode Penelitian Masyarakat**. PT Gramedia Pustaka Utama, Jakarta. 4. Marzuki, 2002. **Metodologi Riset**. BPFE-UII, Yogyakarta. 5. Masri Singarimbun dan Sofian Effendi, 1995. **Metode Penelitian Survai.** LP3ES, Jakarta. 6. Moehar Daniel, 2002. **Metode Penelitian Sosial Ekonomi**. Penerbit Bumi Aksara, Jakarta. 7. Sidney Siegel, 1992. **Statistik Non Parametrik Untuk Ilmu-Ilmu Sosial.** Gramedia, Jakarta. 8. S Nasution, 2001. **Metode Research**. Penerbit Bumi Aksara, Jakarta. 9. Suharsini Arikunto, 2002. **Prosedur Penelitian**. Penerbit Rineka Cipta, Jakarta.

No	Specific Instruction	Main Theme	Sub Theme	Duration	References
1.	Students be knowledgeable about various socio-economics research and know how select them suited with each problem	Classification of Socio-economics Research	1. Survey method 2. Experimental Research. 3. Case study 4. Grounded Research. 5. Qualitative and Quantitative Approach. 6. Analysis of Secondary Data	2 x 100 minutes (Meetings 1 & 2).	Books 4, 8, 6
2.	Students be aware of the real society problems and be able to state it in the form of research title	Research Topics	1. Problems sources. 2. Selecting Research Topics. 3. Research Title	2 x 100 minutes (Meetings 3& 4)	Books 3 , 5
3.	Students comprehend and be capable to describe model and process of survey research	Survey research processes.	1. Purposes of Survey research 2. Processes of survey research	2 x 100 minutes (Meetings 5& 6)	Books 5, 4, 8
4.	Students recognize and be able to explain sampling terms	Sampling terms	1. Population (Universe). 2. Sampling 3. Sampling unit 4. Sampling frame. 5. Respondents	1 x 100 minutes (Meeting 7)	Books 5, 4, 8, 6.
5.	Students understand and know how to apply the sampling method appropriate with the research	Sampling method.	1. Random Sampling: Simple Random, Systematic, Stratified, Clustered Random Sampling.	2 x 100 minutes (Meetings 8& 9)	Books 5, 3.

	purpose		2. Non-random Sampling: Purposive, Quota, Accidental Sampling.		
6.	Students understand and be able to make hypotheses of research problems in scientific principles	Hypotheses	1. Definition and function of hypotheses 2. Types of Hypotheses 3. Hypotheses formulation 4. Hypotheses testing	1 x 100 minutes Meeting 10)	Books 8, 6, , 5.
7.	Students be familiar with and able to distinguish types of data collecting suited with the purposes of the research.	Data Collecting	1. Data classification. 2. Primary and secondary data 3. Observation 4. Interview 5. Polling 6. Questionnaire.	2 x 100 minutes (Meetings 11 & 12)	Buku 8, 6, 4, 9.
8.	Students be capable of data analysis	Data Analysis.	1. Editing, coding, tabulation 2. Data analysis	1 x 100 minutes (Meeting 13)	Books 5, 6.
9.	Students know how to construct research proposal and make research report.	Proposal and Research Report	1. Proposal construction 2. Research Report.	4 x 50 minutes (Meetings 14 & 15	Books 8, 6, 4.

TEACHING CONTRACT SOCIO-ECONOMICS RESEARCH METHODOLOGY
CODE / 2 (2-0) SKS

STUDY PROGRAM	:	S1- Sosial Ekonomi Peternakan dan Produksi Ternak
DAY	:	
DURATION	:	
PLACE	:	
TEACHERS	:	1. Edy Prasetyo 2. Bambang Trisetyo Eddy

S I L A B I :
Study and discuss various aspects needed in conducting research in the field of agricultural socio-economics; such as types of social-economics research, research processes, survey, sampling methods, constructing hypotheses, data collecting methods, data analysis, proposal and report

GENERAL INSTRUCTION
After attending the lecture, students will know, understand and capable in applying the principles of research method in conducting and making scientific works (PKL, Skripsi etc) in the fields of agricultural socio-economics.

Teaching Program Units

No	Meetings	Sub theme	Teacher
1	1-2	1. Survey method 2. Experimental Research. 3. Case study 4. Grounded Research. 5. Qualitative and Quantitative Approach. 6. Analysis of Secondary Data	
2	3-4	1. Problems sources. 2. Selecting Research Topics. 3. Research Titie	
3	5-6	1. Purposes of Survey research 2. Processes of survey research	
4	7	1. Population (Universe). 2. Sampling 3. Sampling unit 4. Sampling frame. 5. Respondents	
5	8	MID SEMESTER TEST	TIM

6	9-10	1. Random Sampling: Simple Random, Systematic, Stratified, Clustered Random Sampling. 2. Non-random Sampling: Purposive, Quota, Accidental Sampling.	
7	11	1. Definition and function of hypotheses 2. Types of Hypotheses 3. Hypotheses formulation 4. Hypotheses testing	
8	12-13	1. Data classification. 2. Primary and secondary data 3. Observation 4. Interview 5. Polling 6. Questionnaire.	
9	14	1. Editing, coding, tabulation 2. Data analysis	
10	15-16	1. Proposal construction 2. Research Report.	

STUDENT'S TASK AGENDA :

In the end of the course, students are obligated to make research proposal (project statement) which in turn can be used for their final tasks such as PKL and *skripsi.*

VALUATION CRITERIA:

1. Mid Semester Test : 40 %
2. Tasks : 20 %
3. Semester Test : 40 %

Jumlah : 100%

BUKU PUSTAKA :

1. Bambang Sudarmoyo. 1993. ***Metodologi Penelitian Bagi Mahasiswa Ilmu-Ilmu Pertanian dan Biologi.*** BP-UNDIP, Semarang.
2. J. Supranto, 1983. **Ekonometrik.** LPFE-UI, Jakarta.
3. Koentjaraningrat, 1997. **Motode-Metode Penelitian Masyarakat.** PT Gramedia Pustaka Utama, Jakarta.
4. Marzuki, 2002. **Metodologi Riset.** BPFE-UII, Yogyakarta.
5. Masri Singarimbun dan Sofian Effendi, 1995. **Metode Penelitian Survai.** LP3ES, Jakarta.
6. Moehar Daniel, 2002. **Metode Penelitian Sosial Ekonomi.** Penerbit Bumi Aksara, Jakarta.
7. Sidney Siegel, 1992. **Statistik Non Parametrik Untuk Ilmu-Ilmu Sosial.** Gramedia, Jakarta.
8. S Nasution, 2001. **Metode Research.** Penerbit Bumi Aksara, Jakarta.
9. Suharsini Arikunto, 2002. **Prosedur Penelitian.** Penerbit Rineka Cipta, Jakarta.

Teaching Agenda

Subject : Socio-economic Research Methodology
Code :
Credit : 2 SKS
Duration : 2 x 2 x 50 minutes
Meetings : 1 dan 2

Objectives

General Instruction : After attending the class, students will be acquainted with, understand, and apply research principles in order to conduct research and reporting the results in the form of PKL, skripsi, etc.

Specific Instruction : Students be familiar with societies real problems and be able to explain it in the form research title

Pokok Bahasan : Classification of Socio-economic Research

Sub Pokok Bahasan :
1. Survey.
2. Experiment.
3. Case study
4. Grounded Research.
5. Qualitative and Quantitative Approach.
6. Secundary data analysis

Teaching-Learning Activities

Phases	Lecture activities	Students activities	Media and teaching tools
1	2	3	4
Introduction	1. Explaining scope of material 2. Explaining instructional objectives 3. Explaining Learning Contract	Listening, Making notation, Responding	White board, OHP/ LCD, whiteboard marker
Presentation	1. Explaining : • Survey. • Experimental. • Case study • Grounded Research. • Qualitative and Quantitative • Secundary data analysis 2. Guiding students activities	Listening, discussing, making notation	White board, OHP/ LCD, whiteboard marker
Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	White board, OHP/ LCD, whiteboard marker

E. References :

1. Marzuki, 2002. **Metodologi Riset**. BPFE-UII, Yogyakarta.
2. Moehar Daniel, 2002. **Metode Penelitian Sosial Ekonomi**. Penerbit Bumi Aksara, Jakarta.
3. S Nasution, 2001. **Metode Research**. Penerbit Bumi Aksara, Jakarta.

Teaching Program Units

Subject : Socio-economic Research Methodology
Code :
Credit : 2 SKS
Duration : 2 x 2 x 50 minutes
Meetings : 3 dan 4

Objectives
General Instruction : After attending the class, students will be acquainted with, understand, and apply research principles in order to conduct research and reporting the results in the form of PKL, *skripsi*, etc.
Specific Instruction : Students be knowledgeable about various socio-economics research and know how select them suited with each problem

Pokok Bahasan : Research Topics

Sub Pokok Bahasan :
1. Problems sources.
2. Selecting Research Topics.
3. Research Title

Teaching-Learning Activities

Phases	Lecture activities	Students activities	Media and teaching tools
1	2	3	4
Introduction	Explaining scope of material Explaining instructional objectives	Listening, Making notation, Responding	White board, OHP/ LCD, whiteboard marker
Presentation	Explaining Problems sources Explaining how to Select Research Topics Explaining how to compose Research Title	Listening, discussing, making notation	White board, OHP/ LCD, whiteboard marker
Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	White board, OHP/ LCD, whiteboard marker

References

1. Nasution Koentjaraningrat, 1997. **Motode-Metode Penelitian Masyarakat**. PT Gramedia Pustaka Utama, Jakarta
2. Masri Singarimbun dan Sofian Effendi. 1995. **Metode Penelitian Survai.** LP3ES, Jakarta.

Teaching Program Units

Subject : Socio-economic Research Methodology
Code :
Credit : 2 SKS
Duration : 2 x 2 x 50 minutes
Meetings : 5 dan 6

Objectives
General Instruction : After attending the class, students will be acquainted with, understand, and apply research principles in order to conduct research and reporting the results in the form of PKL, *skripsi*, etc.
Specific Instruction : Students be knowledgeable of and able to explain the survey research processes.
Main Course : Survey Research Processes
Subcourses : The purpose of survey method
Survey Research Processes

Teaching-Learning Activities

Phases	Lecture activities	Students activities	Media and teaching tools
1	2	3	4
Introduction	Explaining scope of material Explaining instructional objectives	Listening, Making notation, Responding	White board, OHP/ LCD, spidol w.b.
Presentation	Explaining The purpose of survey method Explaining Survey Research Processes	Listening, discussing, making notation	Sda
Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	Sda

References

1. Marzuki, 2002. **Metodologi Riset**. BPFE-UII, Yogyakarta.
2. Masri Singarimbun dan Sofian Effendi, 1995. **Metode Penelitian Survai.** LP3ES, Jakarta.
3. S Nasution, 2001. **Metode Research**. Penerbit Bumi Aksara, Jakarta.

Teaching Program Units

Subject : Socio-economic Research Methodology
Code :
Credit : 2 SKS
Duration : 2 x 50 minutes
Meeting : 7

Objectives
General Instruction : After attending the class, students will be acquainted with, understand, and apply research principles in order to conduct research and reporting the results in the form of PKL, skripsi, etc.
Specific Instruction : Students recognize and be able to explain sampling terms

B. Pokok Bahasan : Sampling terms
C. SubPokok Bahasan : Population (Universe).
Sampling
Sampling unit
Sampling frame.
Respondents

Teaching-Learning Activities

Phases	Lecture activities	Students activities	Media and teaching tools
1	2	3	4
Introduction	Explaining scope of material Explaining instructional objectives Collecting the students works	Listening, Making notation, Responding	White board, OHP/ LCD, spidol w.b.
Presentation	Explaining terms of Population (Universe). Explaining terms of Sampling Explaining terms of Sampling unit Explaining terms of Sampling frame. Explaining terms of Respondents	Listening, discussing, making notation	Sda
Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	Sda

References

1. Marzuki, 2002. **Metodologi Riset**. BPFE-UII, Yogyakarta.
2. Masri Singarimbun dan Sofian Effendi, 1995. **Metode Penelitian Survai.** LP3ES, Jakarta.
3. S Nasution, 2001. **Metode Research**. Penerbit Bumi Aksara, Jakarta
4. Moehar Daniel, 2002. **Metode Penelitian Sosial Ekonomi**. Penerbit Bumi Aksara, Jakarta.

Teaching Program Units

Subject : Socio-economic Research Methodology
Code :
Credit : 2 SKS
Duration : 2 x 2 x 50 minutes
Meetings : 8 dan 9

Objectives
General Instruction : After attending the class, students will be acquainted with, understand, and apply research principles in order to conduct research and reporting the results in the form of PKL, *skripsi*, etc.
Specific Instruction : Students understand and know how to apply the sampling method appropriate with the research purpose

A. Pokok Bahasan : Sampling method
B. SubPokok Bahasan : 2. Random Sampling: Simple Random, Systematic, Stratified, Clustered Random Sampling.
3. Non-random Sampling: Purposive, Quota, Accidental Sampling.

Teaching-Learning Activities

Phases	Lecture activities	Students activities	Media and teaching tools
1	2	3	4
Introduction	Explaining scope of material Explaining instructional objectives Collecting the students works	Listening, Making notation, Responding	White board, OHP/ LCD, spidol w.b.
Presentation	Explaining Random Sampling: Simple Random, Systematic, Stratified, Clustered Random Non-random Sampling: Purposive, Quota, Accidental Ordering students work	Listening, discussing, making notation	Sda
Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	Sda

References

1. Nasution Koentjaraningrat, 1997. **Motode-Metode Penelitian Masyarakat**. PT Gramedia Pustaka Utama, Jakarta
2. Masri Singarimbun dan Sofian Effendi, 1995. **Metode Penelitian Survai.** LP3ES, Jakarta.

Teaching Program Units

Subject : Socio-economic Research Methodology
Code :
Credit : 2 SKS
Duration : 2 x 50 minutes
Meetings : 10

Objectives
General Instruction : After attending the class, students will be acquainted with, understand, and apply research principles in order to conduct research and reporting the results in the form of PKL, *skripsi*, etc..
Specific Instruction : Students understand and be able to make hypotheses of research problems in scientific principles
B. Pokok Bahasan : Hipotesis Penelitian
C. SubPokok Bahasan : Definition and function of hypotheses
Types of Hypotheses
Hypotheses formulation
Hypotheses testing

Teaching-Learning Activities

Phases	Lecture activities	Students activities	Media and teaching tools
1	2	3	4
Introduction	Explaining scope of material Explaining instructional objectives	Listening, Making notation, Responding	White board, OHP/ LCD, spidol w.b.
Presentation	Explaining Definition and function of hypotheses Explaining Types of Hypotheses Explaining Hypotheses formulation 1. Explaining Hypotheses testing	Listening, discussing, making notation	Sda
Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	sda

References

1. Masri Singarimbun dan Sofian Effendi, 1995. **Metode Penelitian Survai.** LP3ES, Jakarta.
2. S Nasution, 2001. **Metode Research**. Penerbit Bumi Aksara, Jakarta
3. Moehar Daniel, 2002. **Metode Penelitian Sosial Ekonomi**. Penerbit Bumi Aksara, Jakarta.

Teaching Program Units

Subject : Socio-economic Research Methodology
Code :
Credit : 2 SKS
Duration : 2 x 2 x 50 minutes
Meetings : 11 dan 12

Objectives
General Instruction : After attending the class, students will be acquainted with, understand, and apply research principles in order to conduct research and reporting the results in the form of PKL, *skripsi*, etc.
Specific Instruction : Students be familiar with and able to distinguish types of data collecting suited with the purposes of the research.
B. Pokok Bahasan : Data Collecting

C. SubPokok Bahasan : Data classification.
Primary and secondary data
Observation
Interview
Polling
Questionnaire.

Teaching-Learning Activities

Phases	Lecture activities	Students activities	Media and teaching tools
1	2	3	4
Introduction	Explaining scope of material Explaining instructional objectives	Listening, Making notation, Responding	White board, OHP/ LCD, spidol w.b.
Presentation	Explaining Data classification. Explaining Primary and secondary data Explaining Observation Explaining Interview Explaining Polling Explaining Questionnaire composing	Listening, discussing, making notation	Sda
Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	sda

References

1. S Nasution, 2001. **Metode Research**. Penerbit Bumi Aksara, Jakarta
2. Moehar Daniel, 2002. **Metode Penelitian Sosial Ekonomi**. Penerbit Bumi Aksara. Jakarta.
3. Marzuki, 2002. **Metodologi Riset**. BPFE-UII, Yogyakarta
4. Suharsini Arikunto, 2002. **Prosedur Penelitian**. Penerbit Rineka Cipta. Jakarta

Teaching Program Units

Subject : Socio-economic Research Methodology
Code :
Credit : 2 SKS
Duration : 2 x 50 minutes
Meetings : 13

Objectives
General Instruction : After attending the class, students will be acquainted with, understand, and apply research principles in order to conduct research and reporting the results in the form of PKL, *skripsi*, etc.
Specific Instruction : Students be capable of data analysis

B. Pokok Bahasan : Data analysis

C. SubPokok Bahasan : Editing, coding, tabulation
Data analysis

Teaching-Learning Activities

Phases	Lecture activities	Students activities	Media and teaching tools
1	2	3	4
Introduction	Explaining scope of material Explaining instructional objectives	Listening, Making notation, Responding	White board, OHP/ LCD, spidol w.b.
Presentation	Explaining Editing, coding, tabulation, data analysis	Listening, discussing, making notation	Sda
Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	sda

References

1. Masri Singarimbun dan Sofian Effendi, 1995. **Metode Penelitian Survai.** LP3ES, Jakarta.
2. S Nasution, 2001. **Metode Research**. Penerbit Bumi Aksara, Jakarta

Teaching Program Units

Subject : Socio-economic Research Methodology
Code :
Credit : 2 SKS
Duration : 2 x 2 x 50 minutes
Meetings : 14 dan 15

Objectives
General Instruction : After attending the class, students will be acquainted with, understand, and apply research principles in order to conduct research and reporting the results in the form of PKL, *skripsi*, etc.
Specific Instruction : Students know how to construct research proposal and make research report
B. Pokok Bahasan : research proposal and research report making

C. SubPokok Bahasan : Proposal construction
Research Report

Teaching-Learning Activities

Phases	Lecture activities	Students activities	Media and teaching tools
1	2	3	4
Introduction	Explaining scope of material Explaining instructional objectives	Listening, Making notation, Responding	White board, OHP/ LCD, spidol w.b.
Presentation	Proposal construction Research Report	Listening, discussing, making notation	Sda
Resume	Selecting students to explain briefly in front of class Identifying the students problems Describe the next material	Asking, sharing	sda

References

1. S Nasution, 2001. **Metode Research**. Penerbit Bumi Aksara, Jakarta
2. Moehar Daniel, 2002. **Metode Penelitian Sosial Ekonomi**. Penerbit Bumi Aksara, Jakarta.
3. Marzuki, 2002. **Metodologi Riset**. BPFE-UII, Yogyakarta

COURSE	: AGRICULTURE FARM MANAGEMENT
COURSE CODE	:
CREDIT	: 3 (2-1)

COURSE OUTLINE

SUBJECT STUDIED	:	**AGRICULTURE FARM MANAGEMENT**
CODE NUMBER/SYSTEM OF SEMESTER CREDIT	:	IPE 309P. SKS: 3 (2-1)
DESCRIPTION	:	Agriculture farm management describe and discuss about on farm activities of farmers and relation with livestock activities. It is consist of farm management classification, production and production factors, cost structure and the economic benefit for farmers familiy, analysis and evaluation of cost, income, productivity and farm livestock efficiency
AIM OF GENERAL INSTRUCTION	:	Student recognize and understand to domestic animal, animal husbandry, farmers and on farm livestock activities doing by farmers community. Student capable to calculate cost and income of input factors utilization and anaysis of farm income to develop farm management and to fulfill families's needs.

REFERENCES:

1. Anonim (Tanpa Tahun). Usaha peternakan (perencanaan Usaha, Analisa dan Pengelolaan). Dinas Peternakan. Jakarta.
2. Hadisaputro, S.1978. Beaya dan Pendapatan Di dalam Usahatani. Departemen Ekonomi Pertanian. Fakultas Pertanian UGM. Yogyakarta.
3. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
4. Prawirokusumo, S.1990. Ilmu Usaha Tani Edisi 1. BPFE. Yogyakarta
5. Soeharjo, A dan Patong,D 1973. Sendi-Sendi Pokok Ilmu Usahatani. Fakultas Pertanian IPB, Bogor.
6. Soekartawi. 2002. Analisis Usaha Tani. Penerbit Universitas Indonesia. Jakarta.

NO.	AIM OF SPECIFIC INSTRUCTION	TOPIC	SUB TOPIC	TIME EST	BIBLIO-GRAPHY
1	The student can understand and explain farm management as a science and science application, agriculture farm management definition, farmers and livestock farmer, farming, animal husbandry, farm trinity and its interrelatedness to other subject matter.	Agriculture Farm management definition and term	Definition and meaning of as a science and science application, farmers and livestock farmer, farming, animal husbandry, farm trinity and its interrelatedness to other subject matter.	1 x 50 minute	Book no : 3; 5
2	The student can understand and explain the comparisson between model/system, type, structure, feature and farm classification	Agriculture Farm management classification	model/system, type, structure, feature and farm classification	4 x 50 munite	3 ; 2
3	The student can understand, explain and compose of agriculture farm management detail element such : land, labor, capital and good of its	Agriculture farm management detail element	land, labor, capital and good farm management	4 x 50 munite	3; 5
4	The student can understand, explain and analysis of agriculture farm management problems such land, labor, capital and good of its and external foactors problems	Agriculture farm management problems	land, labor, capital and good farm management and external factors problems	1 x 50 munite	3; 5; 6
5	The student can understand, explain and breakdown the production and production factors related to agriculture farm management curve, table and function. Student can calculate agriculture farm management by formula and conclude technical and economic effieciency	Interrelated between production and production factors of agriculture farm management	the production and production factors related to farm management curve, table and function. Student can calculate agriculture farm management by formula and conclude technical and economic effieciency	4 x 50 minute	4; 3; 6 ,1
6	The student can understand, explain, classification and calculating revenue, cost and farm management income and livestock farm	Revenue, cost and farm management	Approach concept, classification, structure : revemue, cost and farm income and labor	6 x 50 minute	2; 5; 3; 1;6

	farm management income and livestock farm income based on primary product and secundary product.	income	income	minute	
7	The student can understand, explain and determine the sucessfull of livestock farm management such beef cattle, dairy cattle, small ruminant and poultry in concept of analysis of ratios, namely cost – revenue, labor income, wage, labor efficiency, capital and land.	Evaluation of livestock farm management such beef cattle, dairy cattle, small ruminant and poultry	Financial ratios : cost – revenue, labor income, wages, labor efficiency, capital and land.	8 x 50 minute	2; 5; 3 ; 1;6.

SOCIAL ECONOMICS ANIMAL AGRICULTURE STUDY PROGRAM
ANIMA AGRICULTURE FACULTY UNDIP

SUBJECT STUDIED CONTRACT

SUBJECT STUDIED	: AGRICULTURE FARM MANGEEMNT
S C S	: 3 (2-1) / IPE 309P
STUDY PROGRAM	: S-1 Social Economics Animal Agriculture
DAY/TIME	: Monday / 07.00-09.00 WIB
ROOM	: E2.03
LECTURER	: Ir. Djoko Sumarjonop, MS Ir. Mukson, MS (MKS)
LABORATORY	: Hery Setyawan, SPt (HRS)

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SYLLABUS :

Agriculture farm management describe and discuss about on farm activities of farmers and relation with livestock activities. It is consist of farm management classification, production and production factors, cost structure and the economic benefit for farmers familiy, analysis and evaluation of cost, income, productivity and farm livestock efficiency

AIM OF GENERAL INSTRUCTION

Student recognize and understand to domestic animal, animal husbandry, farmers and on farm livestock activities doing by farmers community. Student capable to calculate cost and income of input factors utilization and anaysis of farm income to develop farm management and to fulfill families's needs.

AIM OF SPECIFIC INSTRUCTION

The student can describe the model/system, type, structure, feature and agriculture farm classification. Interrelated between production and production factors of agriculture farm management . Calculation of fixed cost and variable cost, revenue, income, productivity and effiency of agriculture farm management.

REFERENCES :

1. Anonim (Tanpa Tahun). Usaha peternakan (perencanaan Usaha, Analisa dan Pengelolaan). Dinas Peternakan. Jakarta.
2. Hadisaputro, S.1978. Beaya dan Pendapatan Di dalam Usahatani. Departemen Ekonomi Pertanian. Fakultas Pertanian UGM. Yogyakarta.
3. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
4. Prawirokusumo, S.1990. Ilmu Usaha Tani Edisi 1. BPFE. Yogyakarta
5. Soeharjo, A dan Patong,D 1973. Sendi-Sendi Pokok Ilmu Usahatani. Fakultas Pertanian IPB, Bogor.

LECTURING AGENDA UNIT

NO	WEEK	TOPIC	Sub TOPIC	DOSEN
1	1	Introduction	The student can understand and explain farm management as a science and science application, agriculture farm management definition, farmers and livestock farmer, farming, animal husbandry, farm trinity and its interrelatedness to other subject matter.	MKS
2	2 – 3	Agriculture Farm management classification	model/system, type, structure, feature and farm classification	MKS
3	4 – 5	Agriculture farm management detail element	land, labor, capital and good farm management	MKS
4	6	Agriculture farm management problems	Agriculture farm management problems	MKS
	7	Interrelated between production and production factors of agriculture farm management	Interrelated between production and production factors of agriculture farm management	DSM
5	8	MID TEST		TEAM
6	9	Interrelated between production and production factors of agriculture farm management	Calculation of agriculture farm management in term of formula technical and economic effieciency	DSM
7	10	Revenue, cost and farm management income	Approach concept of livestock classification revenue, calculation of livestock renevue and its evaluation	DSM
8	11	Cost of agriculture farm manageemnt	Approach concept of livestock classification revenue, calculation of livestock renevue and its evaluation	DSM
9	12	Evaluation of farm income	Approach concept of income, farmer income, labor income	DSM
10	13	Evaluation of farm income	ratios : cost – revenue, labor income, wages, labor efficiency, capital and land.	DSM
11	14-15	Case study of ruminant; small ruminanant and poultry	ratios : cost – revenue, labor income, wages, labor efficiency, capital and land.	HRS

LABORATORY AGENDA UNIT

NO	WEEK	TOPIC	Sub TOPIC	DOSEN
1	1	Interrelated between production and production factors of agriculture farm management	Interrelated between roduction and production factors : 1. Production Curve: 2. Technical economic efficiency formula	HRS
2	2	Agriculture farm revenue	1. livestock farm revenue classification 2. Calculation of livestock farm revenue	HRS
3	3	Cost of livestock farm	1. Cost of livestock farm classification 2. Cost calculation of livestock farm management	HRS
4	4	Agriculture farm income	Calcutaion of : 1. farmer income 2. labor income	HRS

EVALUATION CRITERIA :

1. MID Test : 30 %
2. Practical : 30 %
3. Final Exam : 40 %

Jumlah : 100%

PRACTICAL AGENDA UNIT I

Subject Studied : Agriculture Farm Management
Code of Subject : PTI 309P
SCS : 3 (2 -1)
Time schedule : 1 x 50 munite
Schedule of meeting : 1

A. AIM

1. Aim of General Instruction : Student can describe interrelated between production and production factors of agriculture farm management
2. Aim of Specific Instruction : Student can make production curve and calculate and determine efficiency related to product and production factors

B. Topic : interrelated between production and production factors of agriculture farm management

C. Sub Topic : production curve and calculate and determine efficiency related to product and production factors

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • interrelated between production and production factors of agriculture farm management • to explain the competence of topic and sub topic	▪ Take note of ▪ written	White board, OHP / LCD, board maker.
Presentation	• Describing and guidance the calculation of interrelated between production and production factors of agriculture farm management ▪ Reading input – product data and its price ▪ Calculating of AP, MP, MIC and MVP ▪ Drawing of curve ▪ Calculating of technical and economic efficient	▪ Take note of data ▪ Calculating, drawing ▪ give suggestion ▪ discussion ▪ conclusion	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the practical effectiveness c. describe the next subject practical	give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Topic 2-3.
2. Agriculture farm management practical Guidance.

PRACTICAL AGENDA UNIT II

Subject Studied : Agriculture Farm Management
Code of Subject : PTE 309P
SCS : 3 (2 -1)
Time schedule : 1 x 50 munite
Schedule of meeting : 2.

A AIM

1. Aim of General Instruction : Student can describe classification and determine livestock farm revenue
2. Aim of Specific Instruction : Student calculate an classify livestock farm revenue.

A. Topic : Livesrock farm revenue
C. Sub Topic : describe classification and determine livestock farm revenue

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: ▪ livestock farm revenue ▪ the competence of topic and sub topic	▪ Take note of ▪ written	White board, OHP / LCD, board maker.
Presentation	▪ Describing and guiding, and clasifyng of livestock revenue ▪ Reading product data and its utilizing and calculating farm revenue ▪ Calculating of AP, MP, MIC and MVP ▪ Drawing of curve ▪ Calculating of technical and economic efficient	▪ Take note of data ▪ Calculating, drawing ▪ give suggestion ▪ discussion ▪ conclusion	White board, OHP / LCD, board maker. Calculator
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the practical effectiveness c. describe the next subject practical	give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker. Calculator

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Topic 10.
2. Agriculture farm management practical Guidance.

PRACTICAL AGENDA UNIT III

Subject Studied : Agriculture Farm Management
Code of Subject : PTE 309P
SCS : 3 (2 -1)
Time schedule : 1 x 50 munite
Schedule of meeting : 3

A AIM

1. Aim of General Instruction : Student can describe classification and determine cost of livestock farm
2. Aim of Specific Instruction : Student calculate an classify cost of livestock farm management

B. Topic : Cost of Livesrock farm management
C. Sub Topic : Calculate an classify cost of livestock farm management

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: ▪ Cost of livestock farm ▪ the competence of topic and sub topic	▪ Take note of ▪ written	White board, OHP / LCD, board maker.
Presentation	▪ Describing and guiding, and clasifyng of cost of livestock farm ▪ Reading data and its utilizing and calculating ▪ Calculating of cost of livestock farm management	▪ Take note of data ▪ Calculating, drawing ▪ give suggestion ▪ discussion ▪ conclusion	White board, OHP / LCD, board maker. Calculator
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the practical effectiveness c. describe the next subject practical	give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker. Calculator

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability and practical activity

F. References

1. Topic 11
2. Agriculture farm management practical Guidance.

PRACTICAL AGENDA UNIT IV

Subject Studied : Agriculture Farm Management
Code of Subject : PTE 309P
SCS : 3 (2 -1)
Time schedule : 1 x 50 munite
Schedule of meeting : 4

A AIM

1. Aim of General Instruction : Student can describe, classification and determine livestock farm income
2. Aim of Specific Instruction : Student calculate and classify livestock farm income

B. Topic : Livestock farm management
C. Sub Topic : Calculate an classify livestock farm income

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: ▪ Livestock farm income ▪ the competence of topic and sub topic	▪ Take note of ▪ written	White board, OHP / LCD, board maker.
Presentation	▪ Describing, guiding, and clasifyng of livestock farm income ▪ Reading cost and revenue data and its utilizing and calculating ▪ Calculating of cost of livestock farm management	▪ Take note of data ▪ give suggestion ▪ discussion ▪ conclusion	White board, OHP / LCD, board maker. Calculator
The closing of the session	a. closing of session ▪ randomly point toward the student to fill in the questionaire in order to observe the practical effectiveness ▪ describe the next subject practical	give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker. Calculator

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability and practical activity

F. References

1. Topic 12
2. Agriculture farm management practical Guidance.

PRACTICAL AGENDA UNIT V

Subject Studied : Agriculture Farm Management
Code of Subject : PTE 309P
SCS : 3 (2 -1)
Time schedule : 1 x 50 munite
Schedule of meeting : 5

A AIM

1. Aim of General Instruction : Student can evaluate of livestock farm management
2. Aim of Specific Instruction : Student can evaluate of financial ratios : cost – revenue, labor income, wages, labor efficiency, capital and land.

B. Topic : Livestock farm management

C. Sub Topic : evaluate of economic ratio : cost – revenue, labor income, wages, labor efficiency, capital and land.

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: ▪ agriculture farm economic ratio ▪ the competence of topic and sub topic	▪ Take note of ▪ written	White board, OHP / LCD, board maker.
Presentation	▪ Describing, guiding, and clasifyng of livestock farm rconomic ratio ▪ Reading of capital, labor, cost, revenue, income data ▪ Calculating of economic ratio	▪ Take note of data ▪ give suggestion ▪ discussion ▪ conclusion	White board, OHP / LCD, board maker. Calculator
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the practical effectiveness c. describe the next subject practical	give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker. Calculator

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability and practical activity

F. References

1. Topic 13
2. Agriculture farm management practical Guidance.

LECTURING AGENDA UNIT I

Subject Studied : Agriculture Farm Management
Code of Subject : PTE 309P
System of Credit Semester : 3 SCS
Time schedule : 2 x 50 munite
Schedule of meeting : 1

A. AIM

1. Aim of General Instruction : Student recognize and understand to domestic animal, animal husbandry, farmers and on farm livestock activities doing by farmers community. Student capable to calculate cost and income of input factors utilization and anaysis of farm income to develop farm management and to fulfill families's needs.

2. Aim of Specific Instruction : The student can understand and explain farm management as a science and science application, farm management definition, farmers and livestock farmer, farming, animal husbandry, farm trinity and farm management interrelatedness to other subject matter.

B. Topic : Agriculture Farm management term and definition

C. Sub Topic : Definition and meaning of agriculture farm management as a science and science application, farmers and livestock farmer, farming, animal husbandry, farm trinity and its interrelatedness to other subject matter.

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • Introduction to agriculture farm management • to explain the competence of topic and sub topic • explain the lectured contract	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe and explain of the definition and meaning of : ▪ farm management as a science and science application. ▪ farmers and livestock farmer,	▪ give suggestion ▪ discussion ▪ written	White board, OHP / LCD, board maker.

	farming, animal husbandry, farm trinity ▪ farm management interrelatedness to other subject matter.		
The closing of the session	a. closing of session b. group discussion and randomly point toward the student to present the group discussion report c. give the conclusion of the subject matter d. give an assignment to revise the group discussion report completed by textbook e. describe the next subject lectured	▪ presentation ▪ give comment or question related to introduction of farm management ▪ doing an assignment ▪ take not eof	▪ group report ▪ written the comment and question

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
2. Soeharjo, A dan Patong,D 1973. Sendi-Sendi Pokok Ilmu Usahatani. Fakultas Pertanian IPB, Bogor.

LECTURING AGENDA UNIT II

Subject Studied : Agriculture Farm Management
Code of Subject : PTE 309P
System of Credit Semester : 3 SCS
Time Schedule : 2 x 50 munite
Schedule of meeting : 2

A. AIM
1. Aim of General Instruction : Student capable to desrcibe and determine of agriculture farm management classification
2. Aim of Specific Instruction : Student can undersatnd and explain the model/system, type, structure, feature and agriculture farm management classification

B. Topic : Aghriculture farm management classification

C. Sub Topic : model/system and type of its

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • Th advantage studying agriculture farm management classification • to explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe and explain term of agriculture farm management and give an example of model/system and of its	▪ give suggestion ▪ discussion ▪ written	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the lecturing effectiveness c. describe the next subject lectured	▪ give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :
The Instrument usage : check list for evaluating an assigment student capability

F. Referensces

1. Hadisaputro, S.1978. Beaya dan Pendapatan Di dalam Usahatani. Departemen

Ekonomi Pertanian. Fakultas Pertanian UGM. Yogyakarta
2. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta

LECTURING AGENDA UNIT III

Subject Studied : Agriculture Farm Management

Code of Subject : PTE 309P

System of Credit Semester : 3 SCS

Time Schedule : 2 x 50 munite

Schedule of meeting : 3

A AIM

1. Aim of General Instruction : Student capable to desrcibe and determine of agriculture farm management classification
2. Aim of Specific Instruction : Student can undersatnd and explain the model/system, type, structure, feature and agriculture farm management classification

B. Topic : Aghriculture farm management classification

C. Sub Topic : Structure and feature of agriculture farm management

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • The advantage studying agriculture farm management classification • to explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe and explain term of agriculture farm management and give an example of structure and feature of agriculture farm management	▪ give suggestion ▪ discussion ▪ written	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the lecturing effectiveness c. describe the next subject lectured	▪ give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
2. Soeharjo, A dan Patong,D 1973. Sendi-Sendi Pokok Ilmu Usahatani. Fakultas Pertanian IPB, Bogor.

LECTURING AGENDA UNIT IV

Subject Studied : Agriculture Farm Management

Code of Subject : PTE 309P

System of Credit Semester : 3 SCS

Time Schedule : 2 x 50 munite

Schedule of meeting : 4

A AIM

1. Aim of General Instruction : The student can describe and determine of agriculture farm management detail element.
2. Aim of Specific Instruction : The student can understand, explain and compose of agriculture farm management detail element such : land, labor, capital and good of its

B. Topic : Agriculture farm management detail element

C. Sub Topic : Land and labor of its

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • the agriculture elements of land and labor • to explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe and explain term of agriculture farm management elements and give an example of its such as land and labor	▪ give suggestion ▪ discussion ▪ written	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the lecturing effectiveness c. describe the next subject lectured	▪ give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
2. Soeharjo, A dan Patong,D 1973. Sendi-Sendi Pokok Ilmu Usahatani. Fakultas Pertanian IPB, Bogor.

LECTURING AGENDA UNIT V

Subject Studied : Agriculture Farm Management

Code of Subject : PTE 309P

System of Credit Semester : 3 SCS

Time Schedule : 2 x 50 munite

Schedule of meeting : 5

A AIM

1. Aim of General Instruction : The student can describe and determine of agriculture farm management detail element.
2. Aim of Specific Instruction : The student can understand, explain and compose of agriculture farm management detail element such : capital and management

B. Topic : Agriculture farm management detail element

C. Sub Topic : Capital and management

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • the agriculture elements of capital and management • to explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe and explain term of agriculture farm management elements and give an example of its such as capital and management	▪ give suggestion ▪ discussion ▪ written	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the lecturing effectiveness c. describe the next subject lectured	▪ give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
2. Soeharjo, A dan Patong,D 1973. Sendi-Sendi Pokok Ilmu Usahatani. Fakultas Pertanian IPB, Bogor.

LECTURING AGENDA UNIT VI

Subject Studied : Agriculture Farm Management

Code of Subject : PTE 309P

System of Credit Semester : 3 SCS

Time Schedule : 2 x 50 munite

Schedule of meeting : 6

A AIM

1. Aim of General Instruction : The student can describe and determine the farmers problems in term of internal and external problems.
2. Aim of Specific Instruction : The student can understand, explain and analysis of agriculture farm management problems such land, labor, capital and good of its and internal and external factors

B. Topic : The farmers problems at the agriculture farm management

C. Sub Topic : The farmers problems at the agriculture farm management

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • the advantage of studying farmers problems • to explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe and explain of farmers problems in term of internal and external problems.	▪ give suggestion ▪ discussion ▪ written	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the lecturing effectiveness c. describe the next subject lectured	▪ give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
2. Soeharjo, A dan Patong,D 1973. Sendi-Sendi Pokok Ilmu Usahatani. Fakultas Pertanian IPB, Bogor.
3. Soekartawi. 2002. Analisis Usaha Tani. Penerbit Universitas Indonesia. Jakarta

LECTURING AGENDA UNIT VII

Subject Studied : Agriculture Farm Management
Code of Subject : PTE 309P
System of Credit Semester : 3 SCS
Time Schedule : 2 x 50 munite
Schedule of meeting : 7

A AIM
1. Aim of General Instruction : The student can describe and determine interrelated between production and production factors.
2. Aim of Specific Instruction : The student can understand, explain and breakdown the production and production factors related to agriculture farm management curve, table and function.

B. Topic : Describsion interrelated between production and production factors of agriculture farm management

C. Sub Topic : the production and production factors, curve, table and function.

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • the advantage of studying interrelated between production and production factors in form of curve and table and function • to explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe and explain and breakdown the production and production factors related to agriculture farm management curve, table and function.	▪ Take note of ▪ give suggestion ▪ discussion	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the lecturing effectiveness c. describe the next subject lectured	▪ give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
2. Soeharjo, A dan Patong,D 1973. Sendi-Sendi Pokok Ilmu Usahatani. Fakultas Pertanian IPB, Bogor.
3. Soekartawi. 2002. Analisis Usaha Tani. Penerbit Universitas Indonesia. Jakarta

LECTURING AGENDA UNIT VIII

Subject Studied : Agriculture Farm Management
Code of Subject : PTE 309P
System of Credit Semester : 3 SCS
Time Schedule : 2 x 50 munite
Schedule of meeting : 8

A AIM

1. Aim of General Instruction : The student can describe and determine interrelated between production and production factors.
2. Aim of Specific Instruction : Student can calculate agriculture farm management by formula and conclude technical and economic effieciency

B. Topic : Describsion interrelated between production and production factors of agriculture farm management

C. Sub Topic : Technical and economic effieciency

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • the advantage of studying the techical and economic efficiency • to explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe, explain and give an example of technical and economic production process calculation.	▪ Take note of ▪ give suggestion ▪ discussion	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the lecturing effectiveness c. describe the next subject lectured	▪ give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
2. Soeharjo, A dan Patong,D 1973. Sendi-Sendi Pokok Ilmu Usahatani. Fakultas Pertanian IPB, Bogor.
3. Soekartawi. 2002. Analisis Usaha Tani. Penerbit Universitas Indonesia. Jakarta

LECTURING AGENDA UNIT IX

Subject Studied : Agriculture Farm Management

Code of Subject : PTE 309P

System of Credit Semester : 3 SCS

Time Schedule : 2 x 50 munite

Schedule of meeting : 9

A AIM

1. Aim of General Instruction : The student can describe and determine of the agriculture farm revenue
2. Aim of Specific Instruction : The student can understand, explain, classification and calculating revenue, cost and farm management income and livestock farm income based on primary product and secundary product.

B. Topic : Revenue, cost and farm management income

C. Sub Topic : Concept of classification, structure and agriculture farm revemue

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • the advantage of studying agriculture farm revenue • to explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe, explain and give an example of agricukture farm revenue calculation.	▪ Take note of ▪ give suggestion ▪ discussion	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the lecturing effectiveness c. describe the next subject lectured	▪ give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Anonim (Tanpa Tahun). Usaha peternakan (perencanaan Usaha, Analisa dan Pengelolaan). Dinas Peternakan. Jakarta.
2. Hadisaputro, S.1978. Beaya dan Pendapatan Di dalam Usahatani. Departemen Ekonomi pertanian. Fakultas Pertanian UGM. Yogyakarta.
3. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
4. Soekartawi. 2002. Analisis Usaha Tani. Penerbit Universitas Indonesia. Jakarta

LECTURING AGENDA UNIT X

Subject Studied : Agriculture Farm Management

Code of Subject : PTE 309P

System of Credit Semester : 3 SCS

Time Schedule : 2 x 50 munite

Schedule of meeting : 10

A AIM

1. Aim of General Instruction : The student can describe and determine cost of agriculture farm management
2. Aim of Specific Instruction : The student can understand, explain, classification and calculation cost of agriculture farm management.

B. Topic : Cost of agriculture and livestock farm management

C. Sub Topic : Classification, structure and cost of its calculation

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • the advantage of studying cost of agriculture farm management • to explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe, explain and give an example of agricukture farm cost calculation.	▪ Take note of ▪ give suggestion ▪ discussion	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the lecturing effectiveness c. describe the next subject lectured	▪ give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :

The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Anonim (Tanpa Tahun). Usaha peternakan (perencanaan Usaha, Analisa dan Pengelolaan). Dinas Peternakan. Jakarta.
2. Hadisaputro, S.1978. Beaya dan Pendapatan Di dalam Usahatani. Departemen Ekonomi pertanian. Fakultas Pertanian UGM. Yogyakarta.
3. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
4. Soekartawi. 2002. Analisis Usaha Tani. Penerbit Universitas Indonesia. Jakarta

LECTURING AGENDA UNIT XI

Subject Studied : Agriculture Farm Management
Code of Subject : PTE 309P
System of Credit Semester : 3 SCS
Time Schedule : 2 x 50 munite
Schedule of meeting : 11

A AIM
1. Aim of General Instruction : The student can describe and determine of agriculture farm income
2. Aim of Specific Instruction : The student can understand, explain, classification and calculation of agriculture (livestock) farm income.
B. Topic : Agriculture and livestock farm income
C. Sub Topic : Farmers income and labor income of livestock farm management

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • the advantage of studying of agriculture farm income • to explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe, explain and give an example of farmers income and labor income of livestock farm management	▪ Take note of ▪ give suggestion ▪ discussion	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the lecturing effectiveness c. describe the next subject lectured	▪ give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :
The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Anonim (Tanpa Tahun). Usaha peternakan (perencanaan Usaha, Analisa dan Pengelolaan). Dinas Peternakan. Jakarta.
2. Hadisaputro, S.1978. Beaya dan Pendapatan Di dalam Usahatani. Departemen Ekonomi pertanian. Fakultas Pertanian UGM. Yogyakarta.
3. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
4. Soekartawi. 2002. Analisis Usaha Tani. Penerbit Universitas Indonesia. Jakarta

LECTURING AGENDA UNIT XII

Subject Studied : Agriculture Farm Management
Code of Subject : PTE 309P
System of Credit Semester : 3 SCS
Time Schedule : 2 x 50 munite
Schedule of meeting : 12

A AIM
1. Aim of General Instruction : The student can describe and evaluate of agriculture farm management
2. Aim of Specific Instruction : Student can determine the sucessfull of livestock farm management in concept of analysis of ratios, namely cost – revenue, labor income, wage, labor efficiency, capital and land.

B. Topic : Agriculture and livestock farm evaluation
C. Sub Topic : Ratios of cost – revenue, labor income, wage, labor efficiency, capital and land.

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • the advantage of studying of agriculture farm management evaluation • to explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe, explain and give an example of agriculture farm management evaluation	▪ Take note of ▪ give suggestion ▪ discussion	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the lecturing effectiveness c. describe the next subject lectured	▪ give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :
The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Anonim (Tanpa Tahun). Usaha peternakan (perencanaan Usaha, Analisa dan Pengelolaan). Dinas Peternakan. Jakarta.
2. Hadisaputro, S.1978. Beaya dan Pendapatan Di dalam Usahatani. Departemen Ekonomi pertanian. Fakultas Pertanian UGM. Yogyakarta.
3. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
4. Soekartawi. 2002. Analisis Usaha Tani. Penerbit Universitas Indonesia. Jakarta

LECTURING AGENDA UNIT XIII

Subject Studied : Agriculture Farm Management
Code of Subject : PTE 309P
System of Credit Semester : 3 SCS
Time Schedule : 2 x 50 munite
Schedule of meeting : 13

A AIM
1. Aim of General Instruction : The student can describe and evaluate of ruminant farm management
2. Aim of Specific Instruction : Student can determine the sucessfull of livestock farm management in concept of analysis of ratios, namely cost – revenue, labor income, wage, labor efficiency, capital and land.

B. Topic : Case 1 :The ruminant farm evaluation
C. Sub Topic : Ratios of cost – revenue, labor income, wage, labor efficiency, capital and land.

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • the advantage of studying of ruminant farm evaluation • to explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe, explain and give an example of ruminant farm evaluation	▪ Take note of ▪ give suggestion ▪ discussion	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the lecturing effectiveness c. describe the next subject lectured	▪ give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :
The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Anonim (Tanpa Tahun). Usaha peternakan (perencanaan Usaha, Analisa dan Pengelolaan). Dinas Peternakan. Jakarta.
2. Hadisaputro, S.1978. Beaya dan Pendapatan Di dalam Usahatani. Departemen Ekonomi pertanian. Fakultas Pertanian UGM. Yogyakarta.
3. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
4. Soekartawi. 2002. Analisis Usaha Tani. Penerbit Universitas Indonesia. Jakarta

LECTURING AGENDA UNIT XIV

Subject Studied : Agriculture Farm Management
Code of Subject : PTE 309P
System of Credit Semester : 3 SCS
Time Schedule : 2 x 50 munite
Schedule of meeting : 14

A AIM
1. Aim of General Instruction : The student can describe and evaluate of small ruminant farm management
2. Aim of Specific Instruction : Student can determine the sucessfull of livestock farm management in concept of analysis of ratios, namely cost – revenue, labor income, wage, labor efficiency, capital and land.

B. Topic : Case 2 : The small ruminant farm evaluation
C. Sub Topic : Ratios of cost – revenue, labor income, wage, labor efficiency, capital and land.

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • the advantage of studying of small ruminant farm evaluation • to explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe, explain and give an example of small ruminant farm evaluation	▪ Take note of ▪ give suggestion ▪ discussion	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the lecturing effectiveness c. describe the next subject lectured	▪ give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :
The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Ano..im (Tanpa Tahun). Usaha peternakan (perencanaan Usaha, Analisa dan Pengelolaan). Dinas Peternakan. Jakarta.
2. Hadisaputro, S.1978. Beaya dan Pendapatan Di dalam Usahatani. Departemen Ekonomi pertanian. Fakultas Pertanian UGM. Yogyakarta.
3. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
4. Soekartawi. 2002. Analisis Usaha Tani. Penerbit Universitas Indonesia. Jakarta

LECTURING AGENDA UNIT XV

Subject Studied : Agriculture Farm Management
Code of Subject : PTE 309P
System of Credit Semester : 3 SCS
Time Schedule : 2 x 50 munite
Schedule of meeting : 15

A AIM
1. Aim of General Instruction : The student can describe and evaluate of poultry farm management
2. Aim of Specific Instruction : Student can determine the sucessfull of livestock farm management in concept of analysis of ratios, namely cost – revenue, labor income, wage, labor efficiency, capital and land.

B. Topic : Case 3 : poultry farm evaluation
C. Sub Topic : Ratios of cost – revenue, labor income, wage, labor efficiency, capital and land.

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • the advantage of studying of poultry farm evaluation • to explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	Describe, explain and give an example of poultry farm evaluation	▪ Take note of ▪ give suggestion ▪ discussion	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to fill in the questionaire in order to observe the lecturing effectiveness	▪ give comment or question related to the subject matter and give the feed back of lecturing activity	White board, OHP / LCD, board maker.

E. Evaluation :
The Instrument usage : check list for evaluating an assigment student capability

F. References

1. Anonim (Tanpa Tahun). Usaha peternakan (perencanaan Usaha, Analisa dan Pengelolaan). Dinas Peternakan. Jakarta.
2. Hadisaputro, S.1978. Beaya dan Pendapatan Di dalam Usahatani. Departemen Ekonomi pertanian. Fakultas Pertanian UGM. Yogyakarta.
3. Hernanto, F. 1989. Ilmu Usahatani. PT Penebar Swadaya. Jakarta
4. Soekartawi. 2002. Analisis Usaha Tani. Penerbit Universitas Indonesia. Jakarta

COURSE	: MARKETING MANAGEMENT
COURSE CODE	:
CREDIT	: 2 (2-0)

COURSE OUTLINE

SUBJECT STUDIED	:	MARKETING MANAGEMENT
CODE NUMBER/SYSTEM OF SEMESTER CREDIT	:	/ 2 (2-0)
DESCRIPTION	:	Marketing management discuss to the marketing management introduction, marketing management scoupe of livestock product, analysis of situation and opportunity of livestock market, market measurement, strategy and marketing program, coordinating and controlling of the marketing activities.
AIM OF GENERAL INSTRUCTION	:	At the end of study, the student can understand and explain of the marketing management theory that can be used for decision making of the agribusiness activities, especially for marketing of the livestock commodities.
REFERENCES	:	1. Guiltan, J.P. dan G.W. Paul. 1994. Strategi dan Program Manajemen Pemasaran. Penerbit Erlangga. Ed. Ke –2. (terjemahan oleh : Agus Maulana). 2. Kotler, P. 1997. Manajemen Pemasaran. PT. Prenhallindo, Jakarta (terjemahan Teguh H dan R. A. Rusli). 3. Mursid, M. 1997. Manajemen Pemasaran. Penerbit Bumi Aksara Jakarta Bekerjasama dengan PAU – Studi Ekonomi UI, Jakarta. 4. Soekartawi. 1993[a]. Manajemen Pemasaran dalam Bisnis Modern. Penerbit Pustaka Sinar Harapan, Jakarta. 5. Soekartawi. 1993[b]. Prinsip Dasar Manajemen Pemasaran Hasil-hasil Pertanian. Rajawali Press, Jakarta. 6. Swasta, B. dan Irawan. 1990. Manajemen Pemasaran Modern. Penerbit Liberty, Yogyakarta.

NO.	AIM OF SPECIFIC INSTRUCTION	TOPIC	SUB TOPIC	TIME ESTIMATION	REFERE NCES
1.	Student can understand and explain the introduction of marketing management, planning process and the important of marketing management for livestock commodities	Introduction and scoupe of marketing management for livestock commodities	1. Introduction of marketing management 2. Marketing problems 3. The process of marketing planning 4. Important of marketing management for livestock commodities	2 x 100 munite	No. 1, 2 , 4 and 5.
2.	Student can understand and explain the analysis of market opportunity, market measurement, selling forecasting, some factors influence of selling and profitable analysis	analysis of situation and opportunity of livestock market	1. Forecasting of the market opportunity. 2. Market measurement 3. Selling forecasting 4. Profitable analisys	3x 100 munite	No. 1 and3
3.	Student can understand and explain the strategy, kinds of marketing strategy and program of livestock commodities marketing	Strategy and program of livestock commodities marketing	1. The kinds of marketing strategy 2. Program and planning of marketing 3. Price determination	2 x 100 munite	No. 1, 4, 5 and 6
4.	Student can understand and explain the program and marketing policy (4P : product, price, promotion and place), cost and selling budget and selling evaluation	Program and livestock commodities marketing policy	1. Implmentation and marketing policy 2. Cost and marketing budget 3. Pull factors of selling. 4. Evaluation of selling achievement 5. Market competition	4 x 100 munite	No. 1,2,3,4 and 6

5.	Student can understand and explain the marketing organisation design, coordinating, controlling of livestock commodities marketing	Organizing, coordinating, and controlling system of livestock commodities marketing	1. Structure, kinds and role of marketing organisation 2. Marketing coordination 3. Human resources management 4. Environment monitoring of marketing strategy 5. The function of marketing controlling	4 x 100 munite	No. 1,3,4,5,6

SUBJECT STUDIED CONTRACT
MARKETING MANAGEMENT (2 SCS)

PROGRAM STUDI : S-1 SOCIAL ECONOMIC ANIMAL AGRICULTURE
DAY :
TIME :
ROOM :
LECTURER :

SYLLABUS :

Marketing management study and discuss to the introduction and scoupe of livestock product marketing management, situation and market opportuniy analysis, market measurement, strategy and marketing program and controlling of marketing activities.

AIM OF GENERAL INSTRUCTION :

At the end of study, the student can understand and explain of the marketing management theory that can be used for decision making of the agribusiness activities, especially for marketing of the livestock commodities.

LECTURING AGENDA UNIT

Week	Topic	Sub Topic	Lecturer
1, 2	Introduction and scoupe of marketing management for livestock commodities	1. Introduction of marketing management 2. Marketing problems 3. The process of marketing planning 4. Important of marketing management for livestock commodities	
3, 4,5	analysis of situation and opportunity of livestock market	1. Forecasting of the market opportunity. 2. Market measurement 3. Selling forecasting 4. Profitable analisys	
6, 7	Strategy and program of livestock commodities marketing	1. The kinds of marketing strategy 2. Program and planning of marketing 3. Price determination	
8	MID SEMESTER		TIM
9, 10, 11, 12	Program and livestock commodities marketing policy	1. Implmentation and marketing policy 2. Cost and marketing budget 3. Pull factors of selling. 4. Evaluation of selling achievement 5. Market competition	
13, 14, 15, 16	Organizing, coordinating, and controlling system of livestock commodities marketing	1. Structure, kinds and role of marketing organisation 2. Marketing coordination 3. Human resources management	

		4. Environment monitoring of marketing strategy 5. The function of marketing controlling	

E. REFERENCES :

1. Guiltan, J.P. dan G.W. Paul. 1994. Strategi dan Program Manajemen Pemasaran. Penerbit Erlangga. Ed. Ke –2. (terjemahan oleh : Agus Maulana).
2. Kotler, P. 1997. Manajemen Pemasaran. PT. Prenhallindo, Jakarta (terjemahan Teguh H dan R. A. Rusli).
3. Mursid, M. 1997. Manajemen Pemasaran. Penerbit Bumi Aksara Jakarta Bekerjasama dengan PAU – Studi Ekonomi UI, Jakarta.
4. Soekartawi. 1993[a]. Manajemen Pemasaran dalam Bisnis Modern. Penerbit Pustaka Sinar Harapan, Jakarta.
5. Soekartawi. 1993[b]. Prinsip Dasar Manajemen Pemasaran Hasil-hasil Pertanian. Rajawali Press, Jakarta.
6. Swasta, B. dan Irawan. 1990. Manajemen Pemasaran Modern. Penerbit Liberty, Yogyakarta.

F. EVALUATION :

- MID TEST : 50%
- FINAL EXAM : 50%

NOTE :

The evaluation of an assignment is a part of mid test or final exam

LECTURING AGENDA UNIT I

Subject Studied : Marketing Management
Code of Subject :
System of Credit Semester : 2 SCS
Time Schedule : 2 x 50 munite
Schedule of meeting : 1 and 2

A. AIM

1. Aim of General Instruction : At the end of study, the student can understand and explain of the marketing management theory that can be used for decision making of the agribusiness activities, especially for marketing of the livestock commodities.
2. Aim of Specific Instruction : Student can understand and explain the introduction of marketing management, planning process and the important of marketing management for livestock commodities

B. Topic : Introduction and scoupe of livestock commodities marketing management

C. Sub Topic :
1. Introduction of marketing management
2. Marketing problems
3. The process of marketing planning
4. Important of marketing management for livestock commodities

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	Describe and explain the subject material: • Introduction of marketing management • to explain the competence of topic and sub topic • explain the lectured contract	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	1. Describe and explain about : ▪ Introduction of marketing management ▪ Marketing problems ▪ Marketing planning process ▪ Important of marketing management for livestock commodities 2. give a question to the student relation to introduction of marketing management 3. identification of student's answering and give guidance of it	▪ give suggestion ▪ discussion ▪ written	White board, OHP / LCD, board maker.

The closing of the session	a. closing of session b. randomly point toward the student to present the group discussion report c. the comment from other student d. describe the next subject lectured	▪ give comment or question related to introduction and scoupe of marketing management ▪ take note of	▪ written the comment and question

E. References :

1. Guiltan, J.P. dan G.W. Paul. 1994. Strategi dan Program Manajemen Pemasaran. Penerbit Erlangga. Ed. Ke –2. (terjemahan oleh : Agus Maulana).
2. Kotler, P. 1997. Manajemen Pemasaran. PT. Prenhallindo, Jakarta (terjemahan Teguh H dan R. A. Rusli).
3. Soekartawi. 1993[a]. Manajemen Pemasaran dalam Bisnis Modern. Penerbit Pustaka Sinar Harapan, Jakarta.
4. Soekartawi. 1993[b]. Prinsip Dasar Manajemen Pemasaran Hasil-hasil Pertanian. Rajawali Press, Jakarta.

LECTURING AGENDA UNIT II

Subject Studied : Marketing Management
Code of Subject :
System of Credit Semester : 2 SCS
Time Schedule : 2 x 50 munite
Schedule of meeting : 3, 4 and 5

A. AIM

1. Aim of General Instruction : At the end of study, the student can understand and explain of the marketing management theory that can be used for decision making of the agribusiness activities, especially for marketing of the livestock commodities.
2. Aim of Specific Instruction : Student can understand and explain the analysis of market opportunity, market measurement, selling forecasting, some factors influence of selling and profitable analysis

B. Topic : Analysis of situation and opportunity of livestock market

C. Sub Topic :
1. Forecasting of the market opportunity.
2. Market measurement
3. Selling forecasting
4. Profitable analisys

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	▪ Describe and explain the subject /lectured material • Explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	1. Describe and explain about : ▪ Forecasting of the market opportunity. ▪ Market measurement ▪ Selling forecasting ▪ Profitable analisys 2. give question about subject lectured 3. identify the student response and give guidance of the question	▪ give suggestion ▪ discussion ▪ written	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to present the group discussion report ▪ the comment from other student ▪ describe the next subject lectured	▪ give comment or question related to analysis situiation and profitable analysis ▪ take note of	▪ question and written the comment

E. References :

1. Guiltan, J.P. dan G.W. Paul. 1994. Strategi dan Program Manajemen Pemasaran. Penerbit Erlangga. Ed. Ke –2. (terjemahan oleh : Agus Maulana).
2. Mursid, M. 1997. Manajemen Pemasaran. Penerbit Bumi Aksara Jakarta Bekerjasama dengan PAU – Studi Ekonomi UI, Jakarta.

LECTURING AGENDA UNIT III

Subject Studied : Marketing Management
Code of Subject :
System of Credit Semester : 2 SCS
Time Schedule : 2 x 50 munite
Schedule of meeting : 6 and 7

A. AIM

1. Aim of General Instruction : At the end of study, the student can understand and explain of the marketing management theory that can be used for decision making of the agribusiness activities, especially for marketing of the livestock commodities.
2. Aim of Specific Instruction : Student can understand and explain the strategy, kinds of marketing strategy and program of livestock commodities marketing

B. Topic : Strategy and program of livestock commodities marketing

C. Sub Topic :
1. The kinds of marketing strategy
2. Program and planning of marketing
3. Price determination

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	▪ Describe and explain the subject /lectured material • Explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board, OHP / LCD, board maker.
Presentation	1. Describe and explain about : ▪ The kinds of marketing strategy. ▪ Program and planning of marketing ▪ Price determination 2. give question about subject lectured 3. identify the student response and give guidance of the question 4. give an assignment relation to program and strategy of livestock marketing	▪ give suggestion ▪ group discussion ▪ give the answered and written ▪ observe the strategy and progarm of livestock marketing by internet	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to present the group discussion report	▪ give comment or question related to livestock	▪ question and written the

	c. the comment from other student d. describe the next subject lectured	marketing ▪ take note of	comment

C. References :

1. Guiltan, J.P. dan G.W. Paul. 1994. Strategi dan Program Manajemen Pemasaran. Penerbit Erlangga. Ed. Ke –2. (terjemahan oleh : Agus Maulana).
2. Soekartawi. 1993[a]. Manajemen Pemasaran dalam Bisnis Modern. Penerbit Pustaka Sinar Harapan, Jakarta.
3. Soekartawi. 1993[b]. Prinsip Dasar Manajemen Pemasaran Hasil-hasil Pertanian. Rajawali Press, Jakarta.
4. Swasta, B. dan Irawan. 1990. Manajemen Pemasaran Modern. Penerbit Liberty, Yogyakarta

LECTURING AGENDA UNIT III

Subject Studied : Marketing Management
Code of Subject :
System of Credit Semester : 2 SCS
Time Schedule : 2 x 50 munite
Schedule of meeting : 8, 9,10 and 11

A. AIM

1. Aim of General Instruction : At the end of study, the student can understand and explain of the marketing management theory that can be used for decision making of the agribusiness activities, especially for marketing of the livestock commodities.
2. Aim of Specific Instruction : Student can understand and explain the program and marketing policy (4P : product, price, promotion and place), cost and selling budget and selling evaluation

B. Topic : Program and livestock commodities marketing policy

C. Sub Topic :
1. Implmentation and marketing policy
2. Cost and marketing budget
3. Pull factors of selling.
4. Evaluation of selling achievement
5. Market competition

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	▪ Describe and explain the subject /lectured material • Explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of	White board. OHP / LCD. board maker.
Presentation	1. Describe and explain about program and livestock commodities marketing policy 2. compose of group discussion and give question about subject lectured 3. identify the student response and give guidance of the question 4. give an assignment relation to program and strategy of livestock marketing policy	▪ give suggestion ▪ group discussion ▪ give the answered and written ▪ observe the strategy and progarm of livestock marketing by textbook and internet	White board. OHP / LCD. board maker.
The closing of the session	a. closing of session b. randomly point toward the student to	▪ give comment or question related	▪ question and

	present the group discussion report c. the comment from other student d. describe the next subject lectured	to livestock marketing program and policy ▪ take note of ▪ submit an assignment	written the comment

E. References :

1. Guiltan, J.P. dan G.W. Paul. 1994. Strategi dan Program Manajemen Pemasaran. Penerbit Erlangga. Ed. Ke –2. (terjemahan oleh : Agus Maulana).
2. Kotler, P. 1997. Manajemen Pemasaran. PT. Prenhallindo, Jakarta (terjemahan Teguh H dan R. A. Rusli).
3. Mursid, M. 1997. Manajemen Pemasaran. Penerbit Bumi Aksara Jakarta bekerjasama dengan PAU – Studi Ekonomi UI, Jakarta.
4. Soekartawi. 1993[a]. Manajemen Pemasaran dalam Bisnis Modern. Penerbit Pustaka Sinar Harapan, Jakarta.
5. Swasta, B. dan Irawan. 1990. Manajemen Pemasaran Modern. Penerbit Liberty, Yogyakarta

LECTURING AGENDA UNIT IV

Subject Studied : Marketing Management
Code of Subject :
System of Credit Semester : 2 SCS
Time Schedule : 2 x 50 munite
Schedule of meeting : 12, 13, 14 and 15

A. AIM

1. Aim of General Instruction : At the end of study, the student can understand and explain of the marketing management theory that can be used for decision making of the agribusiness activities, especially for marketing of the livestock commodities.
2. Aim of Specific Instruction : Student can understand and explain the marketing organisation design, coordinating, controlling of livestock commodities marketing

B. Topic : Organizing, coordinating, and controlling system of livestock commodities marketing

C. Sub Topic :
1. Structure, kinds and role of marketing organisation
2. Marketing coordination
3. Human resources management
4. Environment monitoring of marketing strategy
5. The function of marketing controlling

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	▪ Describe and explain the subject /lectured material • Explain the competence of topic and sub topic	▪ Take note of ▪ written ▪ Take note of ▪ Submit an assignment	White board, OHP / LCD, board maker.
Presentation	1. Describe and explain about organizing, coordinating and controlling system of livestock marketing 2. compose of group discussion and give question about subject lectured 3. identify the student response and give guidance of the question 4. give an assignment relation to program and strategy of livestock marketing policy	▪ give suggestion ▪ group discussion ▪ give the answered and written ▪ observe the subject lectured by textbook and internet	White board, OHP / LCD, board maker.
The closing of the session	a. closing of session b. randomly point toward the student to	▪ give comment or question related	▪ question and

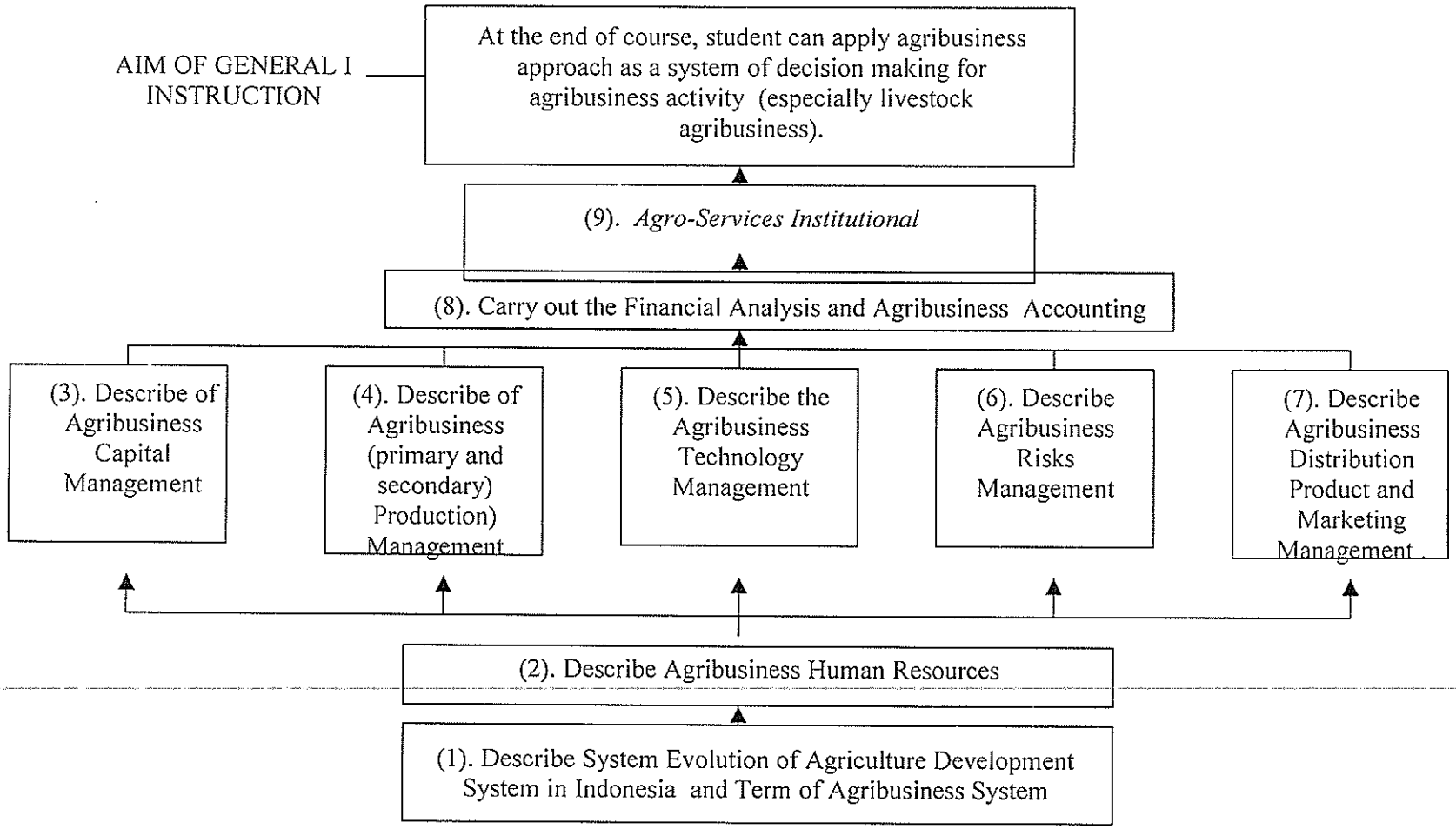
	present the group discussion report c. the comment from other student d. describe the exam material	to livestock marketing management ▪ submit an assignment ▪ take note of	written the comment

E. References :

1. Guiltan, J.P. dan G.W. Paul. 1994. Strategi dan Program Manajemen Pemasaran. Penerbit Erlangga. Ed. Ke –2. (terjemahan oleh : Agus Maulana).
2. Mursid, M. 1997. Manajemen Pemasaran. Penerbit Bumi Aksara Jakarta Bekerjasama dengan PAU – Studi Ekonomi UI, Jakarta.
3. Soekartawi. 1993[a]. Manajemen Pemasaran dalam Bisnis Modern. Penerbit Pustaka Sinar Harapan, Jakarta.
4. Soekartawi. 1993[b]. Prinsip Dasar Manajemen Pemasaran Hasil-hasil Pertanian. Rajawali Press, Jakarta.
5. Swasta, B. dan Irawan. 1990. Manajemen Pemasaran Modern. Penerbit Liberty, Yogyakarta

COURSE	: LIVESTOCK AGRIBUSINESS
COURSE CODE	: PTF 403 P
CREDIT	: 3 (2-1) SCS

INSTRUCTIONAL ANALISIS
SUBJECT STUDIED : LIVESTOCK AGRIBUSINESS



COURSE OUTLINE

SUBJECT STUDIED	:	LIVESTOCK AGRIBUSINESS
CODE NO/ SCS	:	PTE-205 / 2 (2-0)
STUDY PROGRAM / SEMESTER	:	SOCIAL ECONOMI ANIMAL AGRICULTURE / SEMESTER V.
DESKRIPSI SINGKAT	:	Describe and explain about development approach of evalution (History) in Indoensia, scoupe of its, Human Resources Management, Upsteram Agribusiness (Capital), On farm Farm Management (primary and secondary product management), down stream agribusiness (post harvest technology, risks, marketing), financial analysis and agribusiness accounting, and agribusiness supporting institution.
TUJUAN INSTRUKSIONAL UMUM (TIU)	:	At the end of course, student can apply agribusiness approach as a system of decision making for agribusiness activity (especially livestock agribusiness).

No.	Aim of Specific Instruction	Topic	Sub Topic	Time Estimation	Referemces
1.	Student can explain the important of agribusiness as a system approach (min 90%)	Agribusiness as a system approach	1. concept evolution of agricultural in Indonesia 2. term and scoupe of agribusiness system	2 x 100 minute	1. Downey WD dan Erickson SP, 1987. Manajemen Agribisnis. Erlangga, Jakarta. 2. Said EG dan Intan AH, 2001. Manajemen Agribisnis. GI, Jakarta.

2.	Student can explain term of human resources management, condition and its direction (min 80%)	Agribusiness human resources	1. term of agrobusiness human resources management 2. agrobusiness human resources condition 3. agrobusiness human resources direction	2 x 100 minute	1. Pambudi R dkk, 1999. *Bisnis dan Kewirausahan Dalam Agribisnis*. Pusta-ka Wirausaha Muda, Bogor. 2. Siagian SP, 1997. *Manajemen Sumber daya Manusia*. Bumi Aksara, Jakarta.
3.	Student can explain agribusiness capital management in term of obtain and allocation of its (min 80%)	Agribusiness capital	1. term of agribusiness capital 2. kinds of caiptal (strucure and sources) 3. obtain and allocation method of agribusiness capital	1 x 100 minute	1. Brigham EF and Houston JF, 1998. *Foundamentals of Financial Management*, Harcourt Inc., NY. 2. Kadarsan HW, 1992. *Keuangan Pertanian dan Pembiayan Perusahaan Agribisnis*. Gramedia, Jakarta.
4.	Student can explain term of techology, scoupe of agribusiness techology and its implementation and development and apply of its in agribusiness activities (min 80%)	Agribusiness Technology	1. Term of technology 2. scoupe of agribusiness technology 3. implementation and development of its	1 x 100 minute	1. Said EG dan Intan AH, 2001. *Manajemen Agri-bisnis*. GI, Jakarta. 2.

5.	Student can explain management function for implemetation agribusiness production process (min 80%)	Agrobusiness production	1. Term of agribusiness production 2. Production planning 3. Organization of input and production factors 4. Actuating, controlling and evaluation of primary and secondary production	2 x 100 munite	1. Said EG dan Intan AH, 2001. *Manajemen Agribisnis*. GI, Jakarta. 2. Dept. Pertanian, 1993. *Agribisnis*. Departemen Pertanian RI, Jakarta.
6.	Student can explain the risks of agrobusiness in scoupe of kinds and protection agrobusiness	Risks of Agribusiness	1. Risks and kinds of Agrobusiness risks 2. Agrobusiness risks management 3. agrobusiness risks protection	2 x 100 minute	1. Said EG dan Intan AH, 2001. *Manajemen Agribisnis*. GI, Jakarta. 2. Said EG, Rachmayati, Muttaqin MZ, 2001. *Manajemen Teknologi Agribisnis*. GI, Jakarta.
7.	Student can implement the effiecient of marketing and distribution agribusiness product based on the concept of term of market, marketing goal, strategy and tactics of marketing (min 80%)	Marketing and distribution of agribusiness product	1. Term of market and agribusiness marketing 2. the characteristic of livestock coomodities/ product, its shortage and surplus of agribusiness marketing system 3. system, strategy and	2 x 100 minute	1. Mowen JC and Minor M, 2001. *Consumer Behavior*. H College Pub., NY. 2. Sukartawi, 1993. Prinsip dasar Manajemen Pemasaran Hasil pertanian. 3. Swastha B, 1997. *Manajemen Pemasaran Mo-dern*. Liberty, Yogyakarta

			tactics of agrobusiness marketing. 4. consumer behaviour		
8.	Student can calculate the income, liquid assets, solvency and agribusiness profitable based on term of financial agribusiness and accounting, input – output and cost – revenue (min 80%)	Financial analysis and agribusiness accounting	1. Term of finacial agribusiness 2. Input – output 3. Cost, revenue and income 4. Balance sheet 5. liquid assets, solvency and agribusiness profitable	2 x 100 munite	1. Dept. Pertanian, 1993. *Agribisnis.* Departemen Pertanian RI, Jakarta. 2. Brigham EF and Houston JF, 1998. *Foundamentals of Financial Management.* Harcourt Inc., NY 3. Kadarsan HW, 1992. *Keuangan Pertanian dan Pembiayan Perusahaan Agribisnis.* Gramedia, Jakarta.
9.	Student can explain the existance and advantage of agribusiness supporting institution (min 80%)	Agribusiness supporting institution	1. Government 2. Finance Institution 3. Institution of Marketing and Product Distribution 4. Cooperative 5. Education Institute 6. Agricultural Extention Institution 7. Research Institute 8. Incurance Institution	2 x 100 munite	1. Dept. Pertanian, 1993. *Agribisnis.* Departemen Pertanian RI, Jakarta
	S u m = 16 weeks x 2 scs x 50 munite			**1.600 munite**	

STUDIED CONTRACT

SUBJECT STUDIED	:	**A G R I B U S I N E SS**
CODE NUMBER/ SCS	:	PTE-205 / 2 (2-0)
STUDY PROGRAM / SEMESTER	:	**Social Economic Animal Agriculture** / ODD SEMESTER
DESCRIBTION	:	Agribusiness is an activities in agricultural sectors that efficient concept implemented, begin at agriculture production factors supplying (*up-stream agribusiness*), production process (*(on-farm agribusiness*). Post harvest and product marketing (*(down-stream agribusiness*) to the concumer *(Departemen Pertanian, 1993).*
AIM OF GENERAL INSTRUCTION	:	At the end of course, student can apply agribusiness approach as a system of decision making for agribusiness activity (especially livestock agribusiness).
TIME & ROOM	:	.....
LECTURER		.....

LECTURING AGENDA UNIT

NO.	WEEK	TOPIC AND SUB TOPIC	LECTURER
1.	1 – 2 (2 x 100 minute)	Agribusiness as a system approach 1. Concept evolution of agricultural in Indonesia 2. Term and scoupe of agribusiness system 3. Behaviour and agribusiness supporting institution	.....
2.	3 – 4 (2 x 100 minute)	Agribusiness Human Resources : 1. Term of agribusiness human resources management 2. Agribusiness human resources condition 3. Agribusiness human resources direction	.....
3.	5 (1 x 100 minute)	Capital Agribusiness : 1. Term of agribusiness capital 2. Kinds of caiptal (strucure and sources) 3. Obtain and allocation method of agribusiness capital	.....
4.	6 (1 x 100 munite)	Agribusiness Technology : 1. Term of technology 2. Scoupe of agribusincss technology 3. Implementation and development of its	

5.	7 – 8 (2 x 100 munite)	Agribusiness Production 1. Term of agribusiness production 2. Production planning 3. Organization of input and production factors 4. Actuating, controlling and evaluation of primary and secondary production	
6.	9 – 10 (2 x 100 munite)	Risks of Agribusiness 1. Risks and kinds of Agrobusiness risks 2. Agrobusiness risks mnagement 3. agrobusiness risks protection	
7.	11 – 12 (2 100 munite)	Agribusienss marketing and distribution product 1. Term of market and agribusiness marketing 2. the characteristic of livestock coomodities/ product, its shortage and surplus of agribusiness marketing system 3. system, strategy and tactics of agrobusiness marketing. 4. Consumer behaviour	
8.	13 – 15 (2 x 100 munite)	Financial analysis and agribusiness accounting 1. Term of finacial agribusiness 2. Input – output 3. Cost, revenue and income 4. Balance sheet 5. liquid assets, solvency and agribusiness profitable	
9.	16 (1 x 100 munite)	Agribusiness Supporting Institution (Agro services) : 1. Government 2. Finance Institution 3. Institution of Marketing and Product Distribution 4. Cooperative 5. Education Institute 6. Agricultural Extention Institution 7. Research Institute 8. Incurance Institution	

REFERENCES :

1. Brigham EF and Houston JF, 1998. Foundamentals of Financial Management, Harcourt Inc., NY.
2. Bungaran Saragih, 2001. AGRIBISNIS Paradigma Baru Pembangunan Ekonomi Berbasis Pertanian. PT. Loji Grafika Griya Sarana, Bogor.
3. Bungaran Saragih, 2001. Suara Dari Bogor (Membangun Sistem Agribisnis). PT. Loji Grafika Griya Sarana, Bogor.
4. BPLP Dept. Pertanian, 1993. Agribisnis. Departemen Pertanian RI, Jakarta.
5. Downey WD dan Erickson SP. 1987. Manajemen Agribisnis. Erlangga, Jakarta.

6. Kadarsan HW, 1992. Keuangan Pertanian dan Pembiayan Perusahaan Agribisnis. Gramedia, Jakarta.
7. Mowen JC and Minor M, 2001. Consumer Behavior. H College Pub., New York.
8. Pambudi R dkk, 1999. Bisnis dan Kewirausahan Dalam Agribisnis. Pusta-ka Wirausaha Muda, Bogor.
9. Said EG dan Intan AH, 2001. Manajemen Agri-bisnis. GI, Jakarta.
10. Said EG, Rachmayati, Muttaqin MZ, 2001. Manajemen Teknologi Agribisnis. GI, Jakarta.
11. Siagian SP, 1997. Manajemen Sumber daya Manusia. Bumi Aksara, Jakarta
12. Sukartawi, 1993. Prinsip Dasar Manajemen Pemasaran Hasil-hasil Pertanian. Rajawali Pers, Jakarta.
13. Swastha B, 1997. Manajemen Pemasaran Modern. Liberty, Yogyakarta.

EVALUATION :

1. Student attendance : ≥ 75,00 %.
2. Mid test : 50,00 %.
3. Final exam : 50,00 %.

LECTURING AGENDA UNIT I

Subject Studied : Livestock Agribusiness
Code of Subject : PTE- 205
System of Credit Semester : 3 (2-1) SCS
Time Schedule : 200 munite
Schedule of meeting : 1 and 2 (2 times meeting)

A. AIM

1. Aim of General Instruction : At the end of course, student can apply agribusiness approach as a system of decision making for agribusiness activity (especially livestock agribusiness).

2. Aim of Special Instruction : Student can explain the important of agribusiness as a system approach

B. Topic : Agribusiness as a system approach

C. Sub Topic :
1. Concept evolution of agricultural in Indonesia
2. Term of agribusiness system
3. Scoupe of agribusiness :
   - *Up-stream agribusiness*
   - *Down-stream agribusiness*
   - *Agro-services institution*

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	1. Explain the scoupe of Livestock Agribusiness 2. Explain the advantage of studying agricultural development history, term and scoupe of livestock agribusiness 3. Explain the competence of topic and sub topic related to livestock agribusiness business opportunity 4. Expalin the lecturing contract	▪ take note of ▪ written ▪ take note of	White board, OHP/ LCD, board maker.
Presentation	1. Explain and clarify of the evolution (history) of agricultural development approach in Indonesia : ▪ Technical approach ▪ Integrated approach ▪ Agribusiness approach 2. Explain term of livestock agribusiness and give an real example of its 3. Explain the scoupe of livestock agribusiness ▪ *Up-stream agribusiness*	▪ Take note of ▪ Answere the question ▪ discussion ▪ written	White board, OHP/ LCD, board maker.

	▪ *On farm agribusiness* ▪ *Down-stream agribusiness* ▪ *Agro-services institution* 4. Giving a guidance and question to the student and student group discussion in order to give student understanding		
The closing of the session	1. give an test or an assignment and feed back related to subject matter 2. Student comment and question 3. describe the material subject lectured for next meeting 4. closing the course	- doing an assignment - take note of - answere the question - discussion	White board, OHP/ LCD, board maker, working sheet

E. EVALUATION :

The lecturing instument interview/question and answere, discussion and qustionair sheet

F. REFERENCES :

- BPLP Deptan, 1993. Agribisnis. Deptan, Jakarta.
- Downey WD dan Erickson SP, 1987. Manajemen Agribisnis. Penerbit Erlangga, Jakarta.
- Said EG dan Intan AH, 2001. Manajemen Agribisnis. Penerbit GI, Jakarta.

LECTURING AGENDA UNIT II

Subject Studied : Livestock Agribusines
Code of Subject : PTE- 205
System of Credit Semester : 3 (2-1) SCS
Time Schedule : 200 munite
Schedule of meeting : 3 and 4 (2 times meeting)

A AIM

1. Aim of General Instruction : At the end of course, student can apply agribusiness approach as a system of decision making for agribusiness activity (especially livestock agribusiness).

2. Aim of Special Instruction : Student can explain term of human resources management, condition and its direction

B. Topic : Agribusiness Human Resources Management

C. Sub Topic :
1. Term of agrobusiness human resources management
2. Agrobusiness human resources condition
3. Agrobusiness human resources direction

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	1. Explain the course of subject matter 2. Explain the advantage of studying agribusiness human resources 3. Explain the competence of topic and sub topic related to livestock agribusiness business opportunity	▪ take note of ▪ written ▪ take note of	White board, OHP/ LCD, board maker.
Presentation	1. Explain and clarify term of agribusiness human resources : ▪ Technical approach ▪ Integrated approach ▪ Agribusiness approach 2. Explain agriculture human resources condition and give an real example of its : ▪ Working motivation ▪ Education ▪ Leadership ▪ Enterpreuneship 5. Explain the agribusiness human resources direction 6. Giving a guidance and question to the student and student group discussion in order to give student understanding	▪ Take note of ▪ Answere the question ▪ discussion ▪ written	White board, OHP/ LCD, board maker., working sheet

The closing of the session	1. give an test or an assignment and feed back related to subject matter 2. Student comment and question 3. describe the material subject lectured for next meeting 4. closing the course	- doing an assignment - take note of - answere the question - discussion	White board, OHP/ LCD, board maker, working sheet

E. EVALUATION :

The lecturing instument interview/question and answere, discussion and qustionair sheet

F. REFERENCE :

- Saragih B, 2001. Agribisnis (Paradigma Baru Pembangunan Ekonomi Berbasis pertanian). Yayasan Mulia Persada Indonesia, Bogor.

LECTURING AGENDA UNIT III

Subject Studied : Livestock Agribusiness
Code of Subject : PTE- 205
System of Credit Semester : 3 (2-1) SCS
Time Schedule : 100 munite
Schedule of meeting : 5

A AIM

1. Aim of General Instruction : At the end of course, student can apply agribusiness approach as a system of decision making for agribusiness activity (especially livestock agribusiness).

2. Aim of Special Instruction : Student can explain agribusiness capital management in term of obtain and allocation of its

B. Topic : Agribusiness capital

C. Sub Topic :
1. Term of agribusiness capital
2. Kinds of caiptal (strucure and sources)
3. Obtain and allocation method of agribusiness capital

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	1. Explain the course of subject matter 2. Explain the advantage of studying agribusiness capital 3. Explain the competence of topic and sub topic related to obtain and allocation of agribusiness capital	▪ take note of ▪ written ▪ take note of	White board, OHP LCD, board maker.
Presentation	1. Explain and clarify term, function and advantage of agribusiness capital : 2. Explain kinds of agribusiness capital based on structure : ▪ Fixed caiptal ▪ Working caiptal 3. Explain kinds of agribusiness capital based on the sources : ▪ Private capital ▪ Loan capital 4. Explain the shortage and surplus of agribusiness capital based on source of capital and give an examples 5. Giving a guidance and question to the student and student group discussion in order to give student	▪ Take note of ▪ Answere the question ▪ discussion ▪ written	White board, OHP LCD, board maker., working sheet

	understanding		
The closing of the session	▪ give an test or an assignment and feed back related to subject matter ▪ Student comment and question ▪ describe the material subject lectured for next meeting ▪ closing the course	a. doing an assignment b. take note of c. answere the question d. discussion	White board, OHP/ LCD, board maker, working sheet

E. EVALUATION :

The lecturing instument interview/question and answere, discussion and qustionair sheet

F. REFERNECS :

- BPLP Deptan, 1993. Agribisnis. Deptan, Jakarta.
- Indonesia Agribusiness Development Project, 1993. Manajemen Keuangan Agribisnis Skala Kecil. Deptan dan Deperin RI, Jakarta.

LECTURING AGENDA UNIT IV

Subject Studied : Livestock Agribusiness
Code of Subject : PTE- 205
System of Credit Semester : 3 (2-1) SCS
Time Schedule : 100 munite
Schedule of meeting : 6

A AIM

1. Aim of General Instruction : At the end of course, student can apply agribusiness approach as a system of decision making for agribusiness activity (especially livestock agribusiness).

2. Aim of Special Instruction : Student can explain techology, scoupe of agribusiness techology and its implementation and development and apply of its in agribusiness activities

B. Topic : Agribusiness Technology

C. Sub Topic :
1. Term of technology
2. scoupe of agribusiness technology
   a. implementation and development of its

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	1. Explain the course of subject matter 2. Explain the advantage of studying agribusiness technology 3. Explain the competence of topic and sub topic related to to livestock agribusiness business opportunity	▪ take note of ▪ written ▪ take note of	White board. OHP/ LCD, board maker.
Presentation	1. Explain and clarify term, role, scoupe and function of agribusiness techology 2. Explain implementation and development of its 3. Giving a guidance and question to the student and student group discussion in order to give student understanding	▪ Take note of ▪ Answere the question ▪ discussion ▪ written	White board, OHP/ LCD, board maker. working sheet
The closing of the session	a. give an test or an assignment and feed back related to subject matter b. Student comment and question c. describe the material subject lectured for next meeting d. closing the course	a. doing an assignment b. take note of c. answere the question d. discussion	White board, OHP/ LCD, board maker, working sheet

E. EVALUATION :

The lecturing instument interview/question and answere, discussion and qustionair sheet

F. REFERENCES :

- Said EG dan Intan AH, 2001. Manajemen Agribisnis. Penerbit GI, Jakarta.
- Said EG, Rachmayanti, Muttaqin MZ, 2001. Manajemen Teknologi Agribisnis. Penerbit GI, Jakarta.
- Saragih B., 2001. Suara Dari Bogor (Membangun Sistem agribisnis). Pustaka Wirausaha Baru, Bogor.

LECTURING AGENDA UNIT V

Subject Studied : Livestock Agribusiness
Code of Subject : PTE- 205
System of Credit Semester : 3 (2-1) SCS
Time Schedule : 100 munite
Schedule of meeting : 7 and 8 (2 times meeting)

A AIM

1. Aim of General Instruction : At the end of course, student can apply agribusiness approach as a system of decision making for agribusiness activity (especially livestock agribusiness).

2. Aim of Special Instruction : Student can explain management function for implemetation agribusiness production process in term of primary and secondary product

B. Topic : Agribusiness Production

C. Sub Topic :
1. Term of agribusiness production
2. Production planning
3. Organization of input and production factors
4. Actuating, controlling and evaluation of primary and secondary production

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	1. Explain the course of subject matter 2. Explain the advantage of studying agribusiness production in term of primary and secondary product 4. Explain the competence of topic and sub topic related to to livestock agribusiness business opportunity	▪ take note of ▪ written ▪ take note of	White board, OHP/ LCD, board maker.
Presentation	1. Expalin and clarify term of agribusiness production 2. Explain and clarify production planning 3. Explain and clarify organization of input and production factors 4. Explain ad clarify the actuating, controlling and evaluation of primary and secondary production 5. Giving a guidance and question to the student and student group discussion in order to give student understanding	▪ Take note of ▪ Answere the question ▪ discussion ▪ written	White board, OHP/ LCD, board maker. working sheet
The closing of	e. give an test or an assignment and feed	a. doin	White

the session	back related to subject matter f. Student comment and question g. describe the material subject lectured for next meeting h. closing the course	g an assignment b. take note of c. answ ere the question d. disc ussion	board, OHP/ LCD, board maker, working sheet

E. EVALUATION :

The lecturing instument interview/question and answere, discussion and qustionair sheet

F. REFERENCES :

- BPLP Deptan, 1993. Agribisnis. Deptan, Jakarta.
- Said EG dan Intan AH, 2001. Manajemen Agribisnis. Penerbit GI, Jakarta.

LECTURING AGENDA UNIT VI

Subject Studied : Livestock Agribusiness
Code of Subject : PTE- 205
System of Credit Semester : 3 (2-1) SCS
Time Schedule : 100 munite
Schedule of meeting : 9 and 10 (2 times meeting)

A AIM

1. Aim of General Instruction : At the end of course, student can apply agribusiness approach as a system of decision making for agribusiness activity (especially livestock agribusiness).

2. Aim of Special Instruction : Student can explain the risks of agrobusiness in scoupe of kinds and protection agrobusiness

B. Topic : Risks of Agribusiness

C. Sub Topic :
1. Risks and kinds of Agrobusiness risks
2. Agrobusiness risks management
3. Agrobusiness risks protection

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	1. Explain the course of subject matter 2. Explain the advantage of studying risks of agribusiness 3. Explain the competence of topic and sub topic related to to livestock agribusiness business opportunity	▪ take note of ▪ written ▪ take note of	White board, OHP/ LCD, board maker.
Presentation	1. Explain and clarify term of agribusiness risk, scoupe and kinds of its 2. Explain and clarify agribusiness risks management 3. Explain and clarify the protection of risks agribusiness activities 4. Giving a guidance and question to the student and student group discussion in order to give student understanding	▪ Take note of ▪ Answere the question ▪ discussion ▪ written	White board, OHP/ LCD, board maker, working sheet
The closing of the session	a. give an test or an assignment and feed back related to subject matter b. Student comment and question c. describe the material subject lectured for next meeting d. closing the course	a. doing an assignment b. take note of c. answere the question d. discussion	White board, OHP/ LCD, board maker, working sheet

E. EVALUATION :

The lecturing instument interview/question and answere, discussion and qustionair sheet

F. REFERENCES :

- Said EG dan Intan AH, 2001. Manajemen Agribisnis. Penerbit GI, Jakarta.
- Said EG, Rachmayanti, Muttaqin MZ, 2001. Manajemen Teknologi Agribisnis. Penerbit GI, Jakarta.

LECTURING AGENDA UNIT VII

Subject Studied : Livestock Agribusiness
Code of Subject : PTE- 205
System of Credit Semester : 3 (2-1) SCS
Time Schedule : 100 munite
Schedule of meeting : 11 and 12 (2 times meeting)

A AIM

1. Aim of General Instruction : At the end of course, student can apply agribusiness approach as a system of decision making for agribusiness activity (especially livestock agribusiness).

2. Aim of Special Instruction : Student can implement the effiecient of marketing and distribution agribusiness product based on the concept of term of market, marketing goal, strategy and tactics of marketing

B. Topic : Marketing and distribution of agribusiness product

C. Sub Topic :
1. Term of market and agribusiness marketing
2. The characteristic of livestock coomodities/ product, its shortage and surplus of agribusiness marketing system
3. System, strategy and tactics of agrobusiness marketing.
4. Consumer behaviour

D. Teaching and Learning Activities

Phase	Lecturer Activities	Student Activities	Media and teaching equipment
1	2	3	4
Introduction	1. Explain the course of subject matter 2. Explain the advantage of studying marketing and distribution agribusiness product 3. Explain the competence of topic and sub topic related to make serious effort of economic efficieny on livestock agribusiness marketing	▪ take note of ▪ written ▪ take note of	White board, OHP/ LCD, board maker.
Presentation	1. Explain and clarify term of market and agribusiness marketing 2. Explain and clarify the characteristic of livestock coomodities/ product, 3. Explain and clarify its shortage and surplus of agribusiness marketing system 4. Explain and clarify agribusiness risks management 5. Explain and clarify the system, strategy and tactics of agrobusiness marketing in term of economic efficieny	▪ Take note of ▪ Answere the question ▪ discussion ▪ written	White board, OHP/ LCD, board maker, working sheet