

Course Module Department of Animal Science Faculty of Animal Science Universitas Brawijaya

Module name	Basic Technology of Animal Products
Module level	Undergraduate Program
Code	PET60012
Subtitle	-
Courses	-
Semester(s)	3
Person responsible for	
the module	
Lecturer	1. Prof. Dr. Ir. Djalal Rosyidi, MS
	2. Prof. Dr.Ir. Lilik Eka Radiati MS., IPU
	3. Dr. Ir. Imam Thohari, MP
	4. Dr. Agus Susilo, S.Pt., MP
	5. Dr. Ir. Mustakim, MP
	6. Dr. Khotibul Umam Al-Awwaly, S.Pt., M.Si
	7. Dr. Ir. Manik Erry Sawitri, MP
	8. Dr. Herly Evanuarini, S.Pt., MP
	9. Dr. Abdul Manab, S.Pt, MP
	10. Dr. Dedes Amertaningtyas, S.Pt, MP
	11. Dr. Premy Puspitawati Rahayu, S.Pt, MP
	12. Ria Dewi Andriani, S.Pt, M.Sc
	13. Mulia Winirsya Apriliyani, S.Pt, MP
	14. Dicky Tri Utama, S.Pt., PhD
Language	Indonesian and English
Relation to curriculum	Compulsory/ Elective
Type of	Contact hours and class size separately for each teaching method:
teaching,	course, structured assignment, practical etc.
contact hours	
Workload	Course: 90.67 hours/semester
	Practical: 42.50 hours/semester
Credit points	3 (2-1) SKS / 5.1 (3.40-1.70) ECTS
Requirements	-
according to the	
examination	
regulation	
Recommended	Biochemistry
prerequisites	

Module	Learning Outcomes:
objectives/inte	Learning Outcomes: 1. Capability to develop knowledge and comprehensive mindset
nded learning	based on Animal science and industry (LO 4)
outcomes	2. Actively contributing in the learning process and discussion (LO
outcomes	10)
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	3. Demonstrating good capability to be independent and to work in
	team as to identify and analyse problems (LO 11)
	Course Learning Outcomes:
	Able to analyze the components contained in animal products
	(carbohydrates, protein, lipids, and water) and their changes and
	the factors affecting the physical and chemical quality of animal
	products
	2. Able to master the basics of processing and preserving animal
	products using high and low temperatures, decreased water
	activity, drying, smoking, salting, curing, fermentation principles,
	acidification techniques, and competitive microflora, irradiation
	techniques, basic packaging, basic canning, and nanotechnology
	3. Able to analyze various types of food additives used in the
	processing and preservation of animal products
	processing and preservation of animal products
	Objectives: This course provides knowledge about the analysis of
	components contained in animal products and their changes, analysis
	of physical, chemical properties of animal products, basic
	preservation and packaging to be used in processing and preservation
	of animal products
	Knowledge: able to explain the importance of animal products
	technology
	Skills: cognitive- Able to analyze the components contained in animal
	products (carbohydrates, protein, lipids, and water) and their
	changes and the factors affecting the physical and chemical quality of
	animal products
	Phsycomotoric- Able to analyze the components contained in animal
	products (carbohydrates, protein, lipids, and water) and their
	changes and the factors affecting the physical and chemical quality of
	animal products
	Competences: Able to master the basics of processing and preserving
	animal products using high and low temperatures, decreased water
	activity, drying, smoking, salting, curing, fermentation principles,
	acidification techniques, and competitive microflora, irradiation
	techniques, basic packaging, basic canning, and nanotechnology
Content	Courses
	Introduction of the Basic Scope of Animal Products God by Animal Products
	2. Carbohydrates in Animal Products
	3. Protein in Animal Products
	4. Water in Animal Products
	5. Lipids in Animal Products

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	6. Heating
	7. Drying
	8. Cooling and Freezing
	9. Basic Fermentation
	10. Nanotechnology
	11. Irradiation
	12. Packaging
	13. Canning
	14. Food Additives
Study and	1. Midterm exam
examination	2. Final term exam
requirements and	3. Practical
forms of examination	4. Structured assignment
Torris or examination	5. Quiz
	6. Activeness
	o. Activeness
	How to score
	– Midterm exam 25%
	- Final term exam 25%
	- Practical 25%
	- Structured assignments 15%
	- Quiz: 5%
	– Activeness: 5%
	A:80 < Final Score ≤ 100
	B+: 75 < Final Score ≤ 80
	B: 69 < Final Score ≤ 75
	C+ : 60 < Final Score ≤ 69
	C:55 < Final Score ≤ 60
	D: 50 < Final Score ≤ 55
	D+ : 44 < Final Score ≤ 50
	E : 0 < Final Score ≤ 44
Media employed	Projector and screen, VLM, Google Classroom
Reading list	Susilo, A., Djalal R, Firman J, and Mulia WA. 2019. Buku Ajar Dasar
nedding list	Teknologi Hasil Ternak. UB Press. Malang.
	2. Soeparno. 2009. Ilmu dan Teknologi Daging. Universitas Gajah
	Mada Press, Yogyakarta.
	3. P.J. Fellows. 2009. Food Processing Technology. Woodhead Publishing Ltd.
	4. Norman W. Desrosier. 2008. Teknologi Pengawetan Pangan. Ul-
	Press. Jakarta.
	5. Winarno, FG. 2008. Kimia Pangan dan Gizi. PT. Gramedia Pustaka
	Utama, Jakarta.