Module designation	Philosophy of Science					
Semester(s) in which the	Odd and Even Semesters					
module is taught						
Person responsible for the module	Prof. Budi Guntoro, Ph.D. Prof. Dr. Budi Prasetyo Widyobroto					
Inodule	Prof. Dr. Sumadi					
	Prof. Zaenal Bachrudin, PhD.					
	Prof. Yuny Erwanto, PhD.					
Language	Bahasa and English					
Relation to curriculum	Study Program's compulsory					
Teaching methods	Classical lecture and discussion					
Workload (incl. contact hours, self-study hours)	Total workload: 79 hours					
sell-study hours)	Contact hours:					
	- Lecture: 23 hours					
	<ul> <li>Academic activity: 28 hours</li> </ul>					
	Private study: 28 hours					
Credit points	2/0					
Required and recommended						
prerequisites for joining the	None					
module Module chiestiyes/intended						
Module objectives/intended learning outcomes	Course Outcomes (CO): 1. Be able to know the history and development of science, a review					
	of the classification of science, philosophy of science, the					
	relationship between science and philosophy and systematic					
	philosophy of science.					
	2. Be able to describe the development of science in ancient and					
	medieval civilizations (Science in Greek, Roman, and medieval					
	civilizations), Islamic civilizations, India, China and Japan;					
	European civilization (re-creation of science in the Renaissance, Revolution in natural philosophy, nature of European science);					
	revolutionary civilization (science during the industrial revolution,					
	intellectual origins of the French revolution, romantic reactions					
	and science); civilization maturation of the sciences (Science of					
	the 19th, 20th centuries, and its problems and prospects).					
	3. Be able to explain the elements of scientific endeavor: empirical					
	data and theoretical interpretation, empirical procedures of					
	science, formal structures of science, conceptual change and					
	development of science, movement of scientific thought, and					
	philosophical status of scientific theory.					
	Expected Learning Outcomes:					
	- Mastery in Sciences:					
	1. Able to master the livestock production science, animal					
	nutrition and fed science, animal products technology, and					
	the livestock social economics in relation to food security					
	and environment. (CO1, CO2, CO3)					
	<ol> <li>Able to master the design, management, and development of livestock research. (CO3)</li> </ol>					
	- Special skills:					
	1. Able to make innovation in the animal husbandry based on					
	the development of science and technology. (CO1, CO3)					

	- General skills	2.						
	<ol> <li>General skills.</li> <li>Able to communicate the result of reasoning and scientific</li> </ol>							
	research in form of thesis and scientific writing responsibly							
	based on academic ethics in the accredited national journal. (CO2, CO3) Philosophy of science and its development; dimensions of the study							
Content								
	of the philosophy of science; knowledge, science and philoso					•		
		types of knowledge; the role of the philosophy of science in the						
		development of the scientific method; inductive and deductive						
	thinking. The purpose of providing material with the above the							
	to provide knowl	edge a	and impleme	nentation of philosophical thinking in				
	the field of animation	the field of animal husbandry for postgraduate level 2 (S2) students.						
	The main disc	ussior	ission in this course focuses on philosophical					
	knowledge and i	knowledge and its classification, philosophy of science based on its						
	scope and posit	ion, d	evelopment	velopment of philosophy of science and field				
		discoveries according to its era as well as conceptualization and						
		methodology of scientific theory. At the end of the lecture, the						
		implementation of the philosophy of science is given in its use for the						
		preparation of thesis designs. The whole discussion of the material, discussion and practice is intended to provide an understanding of						
	the philosophy of science. Students must understand philosophy,							
		science, philosophy of science and philosophical thinking patterns so						
Evene and economent	that they are able to prepare the right research design.         Assessment       Course Outcomes       Percentage (%)							
Exams and assessment formats	Component		(Course C		FE	ercentage (%)		
Tormats								
	(written test,	(written test, take 25			25			
	home exam, p	home exam, paper						
	assignment)	assignment)						
	2. Final exam (w	ritten	n					
	test, take h	ome	CO1 CC	2 & CO3	25			
		aper	001,00	2 0 000				
	assignment)							
	3. Group	CO1, CO2 & CO3		2 & CO3		35		
	presentation			·				
	4. Group discussion CO1, CO2 & CO3			15				
	Grade and Score							
	Grade		Score	Grade		Score		
	A	-	≥80 75, 70, 0	C+		45-49,9		
	A-		75-79,9	C		40-44,9		
	A/B 70-74,9		-	C-		35-39,9		
	B+	65-69,9 60-64,9		C/D		30-34,9 25-29,9		
	В-		50-64,9 55-59,9	D+ D		20-24,9		
	B- B/C	55-59,9		E		0-19,9		
Study and examination			-		1 25%	performance on		
requirements	-			•		•		
	Midterm exam, 25% final exam, 35% group presentation, 15% group discussion. Students must have a final grade of 70% or higher to							
	pass.							
Reading list		- Gie, T.L. 2012. Pengantar Filsafat Ilmu. Penerbit Liberty,						
		Yogyakarta						
- Ihsan, H.A.F. 2010. Filsafat Ilmu. Penerbit PT. Rineka						T. Rineka Cipta,		
	Jakarta					• •		
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- Komara, E. 2011. Filsafat Ilmu dan Metodologi Penelitian.
Penerbit PT. Refika Aditama, Bandung
- Ravertz, J.R. 1982. Filsafat Ilmu, terjemahan The Philosophy of
Science. Oxford University Press. Diterjemahkan oleh S.
Pasaribu. Pustaka Pelajar, Yogyakarta.
- Susanto, A. 2011. Filsafat Ilmu. Penerbit PT. Bumi Aksara,
Jakarta
- Tim Dosen Filsafat. 2010. Filsafat Ilmu. Liberty, Yogyakarta
- Anas, M dan I. Nukman. 2018. Filsafat Ilmu: Orientasi
Ontologis, Epistemologis dan Aksiologis Keilmuan, Rosda,
Bandung
- Sumarna, C. 2020. Filsafat Ilmu: Mencari Makna tanpa kata dan
mentasbihkan Tuhan dalam Nalar. Rosda, Bandung.