

	PROGRAM STUDI S1 STATISTIKA FMIPA-ITS <i>Undergraduate Program Department Of Statistics FMIPA -ITS</i>		1-CP
	Capaian Pembelajaran Program Study Dan Mata Kuliah <i>ELO of Courses and Study Program</i>		
PP-S1-01	Curriculum 2014 , September 2014 Ed	Revision Number : 01	Page :1 of 3

ELO Code	ELO of Study Program	Sub ELO Code	Description Sub ELO of the Courses	Courses	Code of Course ELO
ABLE TO WORK (SKILL) : ELO1-ELO6					
ELO1	Able to solve problem arises in the field of industry by using statistical methods	ELO1.1	Able to apply the method of Statistics in Management	Management Science	ELO1.1MS1- ELO1.1MS8
				Operations Management	ELO1.1M1- ELO1.1M12
				Work Measurement Techniques	ELO1.1T1-ELO1.1T8
				Quality Management	ELO1.1MM1- ELO1.1MM6
				Statistical Quality Control	ELO1.1Q1- ELO1.1Q8
		Planning Production Control	ELO1.1PP1- ELO1.1MM8		
		ELO1.2	Able to determining optimization through design of experiments	Design Quality	ELO1.2P1-ELO1.2P8
ELO1.3	Able to determine the best method to get the optimum solution	Operations Research I	ELO1.3R1.1 - ELO1.3 R.9		
		Operations Research II	ELO1.3R2.1- ELO1.3R2.4		
ELO1.4	Able to determine the reliability of a system	Reliability	ELO1.4R1-ELO1.4 R5		
ELO2	Able to solve problem arises in the field of business - economics by using statistical methods	ELO2.1	Designing and conducting market research and evaluate marketing strategies	Marketing Research Methods	ELO2.1M1-ELO2.1M8
		ELO2.2	Modeling and interpretation of economic phenomena	Financial Analysis	ELO2.2E1-ELO2.2E-6
				Econometrics,	ELO2.2E1-ELO2.2E10
		ELO2.3	Applying mathematics and probability for planning, modeling and evaluation of	Financial Mathematics	ELO2.3M1-ELO2.3M7
		ELO2.4	Financial Mathematics insurance	Actuarial	ELO2.3A1-ELO2.3A4
Accounting	ELO2.3Ak1-ELO2.3Ak11				
ELO2.5	Applying the theory of risk in the financial industry risk management	Manajemen Resiko	ELO2.5M1-ELO2.5M7		
ELO3	Able to solve problems in the field of computational Statistics	ELO3.1	Creating an information management system in various fields	Information Systems Management is	ELO3.1S1-ELO3.1S6
				Data Structures	ELO3.1S1-ELO3.1S9
				Tech Simulation	ELO3.1TS1-ELO3.1TS9
		ELO3.2	Perform data analysis using the statistical program	Data Analysis 1	ELO3.2AD1.1-ELO3.2AD1.910
				Data Analysis 2	ELO3.2AD2.1-ELO3.2AD2.9
		ELO3.3	Creating a program to optimize the use of the program package existing statistical methods	Computational Statistics	ELO3.3K1-ELO3.3K6
Meta Heuristik	ELO3.3M1-ELO3.3M6				
		Artificial Neural Networks	ELO3.3J1-ELO3.3J2		
ELO4	Able to apply the method in the field of Social Statistics GOVERNMENT	ELO4.1	Design and conduct social research and analyze the results	Social Research Methods	ELO4.1R1-ELO4.1R9
				Study Population	ELO4.1S1-ELO4.1S9
		ELO4.2	able to analyze the data official	Official Statistics	ELO4.2O1-ELO4.2O9
ELO4.3	able to analyze the size of the base population	Study Population	ELO4.3S1-ELO4.3S9		

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ELO5	Able to apply the method in the field of Environmental Health Statistics	ELO5.1	Analyzing the data in the field of medicine / health, agriculture / fishery / marine	Bio statistics	ELO5.1B1-ELO5.1B13
				Meta-analysis	ELO5.1M1-ELO5.1M7
		Survival Analysis	ELO5.1S1-ELO5.1S10		
ELO5.2	Analyzing the data in the field of environment	ELO5.2	Spatial Statistics	ELO5.2S1-ELO5.2S8	
ELO6	Able to develop the idea of solving the problem with statistical analysis	ELO6	Able to study the results of statistical methods in the form of a thesis or report	Final project	
				Practical Work	
				Statistical Consulting	ELO6S1-ELO6S5
				Research methodology	ELO6M1-ELO6M7

MASTERY OF KNOWLEDGE : ELO7-ELO11

ELO7	Able to master the basic concepts of mathematics to understand the theory and methods of Statistics and applicability in 5 fields of applied	ELO7.1	able to explain the use of mathematical concepts to derive a good formula that is used in the method of Statistics as well as in its application in industry, business, computing, social, health and environmental governance explain the use of mathematical concepts to derive a good formula that is used in the method of Statistics as well as in its application in industry,	Mathematics I	ELO7.1M1.1- ELO7.1M1.5		
				Mathematics II	ELO7.1M2.1- ELO7.1M2.5		
				Mathematics III	ELO7.1M3.1- ELO7.1M3.4		
				Mathematics IV	ELO7.1M4.1- ELO7.1M4.6		
				Linear Algebra I	ELO7.1A1.1-ELO7.1A1.7		
				Linear Algebra 2	ELO7.1A2.1-ELO7.1A2.4		
ELO7.2	Able to explain and use the concept of mathematical statistics to derive a formula in the method of Statistics	ELO7.2		Probability theory	ELO7.2P1-ELO7.2P6		
				Mathematical Statistics I	ELO7.2MS1.1-ELO7.2MS1.6		
				Mathematical Statistics II	ELO7.2MS2.1-ELO7.2MS2.9		
ELO8	Able formulate the problem and are able to use computer as a data processing tool	ELO8.1	Formulating the problem in statistical modeling	all courses			
				ELO8.2	Able to operate computer to solve problems using MS office dg unt data base and Statistics descriptive data management and be able to apply the basics of programming to create a simple program	Introduction to Computer Science	ELO8.2K1-ELO8.2K6
						Computer Programs	ELO8.3P1-ELO8.3P3
				ELO8.4	able to master the concepts and apply numerical methods	Numerical analyst	ELO8.4A1-ELO8.4A10
ELO9	Able use the concept of Data Collection	ELO9.1	able to explain the concept of designing the survey and menerapkannya	Sampling and Survey Techniques	ELO9.1- ELO9.1.7		
				ELO9.2	Designing experiments and apply	Design Experiment	ELO9.2D1- ELO9.2.12
				ELO9.3	Able to design data collection	Simulation Techniques	ELO8.4T1-ELO8.4T6
ELO10	Able to explain the concept of data management and exploration	ELO10.1	Able to perform data management	Spatial Statistics	ELO10.1S1- ELO10.1S7		
				ELO10.2	Able to perform exploration and presentation of data and apply	Exploration Data Analysis	ELO10.2E1- ELO10.9
				ELO10.3	Able to analyze big data using the appropriate method	Data Mining	ELO10.3D1- ELO10.3D9

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				Design of Experiments	ELO11.1DE1- ELO11.1DE13
				Regression Analysis	ELO11.1AR1- ELO11.1AR8
				Regression Non Parametrik	ELO11.1RNP1- ELO11.1RNP9
				Time Series Analysis	ELO11.1A1- ELO11.2A8
				Analysis Multivariate	ELO11.1M1- ELO11.1M10
		ELO11.2	Able to analyze the data Qualitative	Non-Parametric Statistics	ELO11.2NP1- ELO11.2NP9
				Data Analysis Catagorical	ELO11.2DK1- ELO11.2DK9
		ELO11.3	Selecting the appropriate analysis method dg problems and without	Data Analysis I & II	Look ELO3.2
MANAGERIAL CAPABILITIES : ELO12-ELO16					
ELO12	can make management survey	ELO12.1	Able to manage survey: plan, set prices and negotiate to client	Sampling Techniques & Survey	ELO12.1S1- ELO12.1S7
ELO13	able to make informed decisions based on data analysis	ELO13.1	Taking rational decisions based on the data	Business Decision Analysis	ELO13.1A1- ELO13.1A8
		ELO13.2	Promoting research with scientific method	Research Methods	ELO6M1-ELO6M7
ELO14	Giving instructions choose alternative solutions independent masalahsecara / group	ELO14.1	Providing an alternative solution to the problem	Data Analysis I & II	Look ELO3.2
		ELO14.2	Assessing the accuracy of the method used Statistics	Data Analysis I & II	Look ELO3.2
ELO15	Responsible for independent and group work and communicate well.	ELO15.1	Able to Communicate orally and in writing in Indonesian Idioms	Insights Technology and Scientific Communication	
		ELO15.2	Able to Communicate in Foreign B.	English course	
		ELO15.3	Ability to manage and work in teams	Practical Work	
		ELO15.4	Responsible for independent and group work	All Courses	
ELO16	Develop and maintain a network of	ELO16.1	Developing and maintaining a network of institutions working	Practical Work	
		ELO16.2	Develop and maintain a network of outside institutions		
		ELO16.3	Able to develop an entrepreneurial attitude	Technopreunership	
ATTITUDES AND PROFESSIONAL ETHICS : ELO 17-20					
ELO17	Devoted to God Almighty	ELO17.1	Honest and ethical	Religion & all Courses	
		ELO17.2	Having good morals and personality in completing the task		
ELO18	Ability to work together, care for the environment are diverse and uphold the rule of law	ELO18.1	Berperan sebagai warga negara yang bangga dan cinta tanah air serta mendukung perdamaian dunia	Insights Nationality	
		ELO18.2	Able to Team Work		
		ELO18.3	Having a social sensitivity and care for the environment		
		ELO18.4	Respect each other		
		ELO18.5	Obey the written and unwritten rules	All Courses	
ELO19	Attitude has a mandate Intelligent Creative As lifelong learning provision			All Courses	
ELO20	Have a Professional Ethics			7 Courses	

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