

## Universitas Negeri Surabaya Faculty of Mathematics and Natural Sciences Data Science Undergraduate Study Program

Document Code

				SE	ME:	STE	ΞR	LE	Α	R۱	11V	١G	Ρl	_AN						
Courses				CODE			Course Family		Credit Weight			S	SEMESTER		Compilation Date					
Statistical Computing			49202	203056					Т	=3	P=0	EC	TS=4.77	7	5		Jı	ıly 18	, 2024	
AUTHORIZATION			SP Developer						Course Cluster Coordinator						Study Program Coordinator					
															Yuliani Puji Astuti, S.Si., M.Si.					
Learning model	ľ	Project Based Learning																		
Program Learning		PLO study program that is charged to the course																		
Outcome		Program Objectives (PO)																		
(PLO)	1	PLO-PO Matrix																		
		P.O																		
	1	PO Matrix at the end of each learning stage (Sub-PO)																		
				P.O	1 2	3	4	5	6	7	8	We	ek 10	11	12	13	14	1	5 1	.6
Short Course Descript	t <b>ion</b>	This cours intensive s developme experience techniques	tatis ent a e to i	stical c and a <sub>l</sub> think c	ompution oplication ritically	ng the on. Th and b	ory a roug e abl	and m h thi e to r	ethos co nake	ods a ourse e the	ınd a , it righ	are a is ho it dec	ble to oped cision	apply that st	then uder	n to re	eal pro	oble /e	ems, l the le	both in
References		Main :																		
		<ol> <li>Møller, J, dan Waagepetersen, R. P (2004) Statistical inference and simulation for spatial point processes, Chapman &amp; Hall, London.</li> <li>Dani, G. Dan Lopes, H. F.,(2006) Markov chain Monte Carlo: stochastic simulation for Bayesian inference, Chapman &amp; Hall, New Y.</li> <li>Voss, J.(2014), An introduction to statistical computing: a simulation-based approach, John Wiley &amp; Sons, New Jersey.</li> <li>Rubinstein, R. Y. dan Kroese, D. P (2017), Simulation And the Monte Carlo Method 3rd Edition, John Wiley &amp; Sons, New Jersey.</li> <li>Chen, D. D. dan Chen, J. D. (2017r), Monte-Carlo Simulation-Based Statistical Modeling, Springer Nature, Singapore</li> </ol>																		
Supporters			rs:																	
Supporti lecturer	ing																			
	Final			Evaluation						Help Learning, Learning methods, Student Assignments, [Estimated time]						Lea	in -			
week- abi		oilities of ach arning													1	Learr matei [ efere	ials	١ ١	sses: Neigh	sment nt (%)

	stage (Sub-PO)	Indicator	Criteria & Form	Offline ( offline )	Online ( <i>online</i> )	]	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1							0%
2							0%
3							0%
4							0%
5							0%
6							0%
7							0%
8							0%
9							0%
10							0%
11							0%
12							0%
13							0%
14							0%
15							0%
16							0%

**Evaluation Percentage Recap: Project Based Learning** 

No	Evaluation	Percentage	. ,
		0%	

## Notes

- Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
- 2. **The PLO imposed on courses** are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
- 3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- 4. **Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- Indicators for assessing ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- 6. **Assessment Criteria** are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- 7. Forms of assessment: test and non-test.
- 8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- 9. **Learning Methods:** Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and

- other equivalent methods.

  10. Learning materials are details or descriptions of study materials which can be presented in the form of several
- 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
  12. TM=Face to face, PT=Structured assignments, BM=Independent study.