

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

Document Code

			SEI	MESTE	R LE	EAR	RNII	NG	PLAN		
Courses			CODE		Cours		Cred	it Wei	ight	SEMESTER	Compilation Date
Advanced Machine Learning		492020	4920203015			T=3	P=0	ECTS=4.77	5	July 18, 2024	
AUTHOR	IZAT	ION	SP De	SP Developer			Course Cluster Coordinator			Study Program Coordinator	
											Astuti, S.Si., Si.
Learning model		Project B	ased Learn	ing							
Program Learning		PLO stud	dy progran	n that is cha	rged to	the c	ourse	:			
Outcom		Program	m Objectives (PO)								
(PLO)		PLO-PO	Matrix								
			F	2.0							
		PO Matri	x at the en	d of each le	arning	stage	(Sub	-PO)			
			P.O	1 2 3	4 5	6 7	8	Wee	10 11 1:	2 13 14	15 16
Short Course Descript	ion	learning m methods, various fo Students v various lib	nodels. Topi gradient de orms of de will be traine oraries for de	cs discussed scent, artificia ep learning a ed to impleme eep learning i	include: Il neura Irchitect nt vario n comp	history I netwo ture, tra us dee uter vis	/ and in the contract of the c	motiva noderr proce ning m oblem	ation for the d n approaches esses and te nodels and ard ns. Apart from	evelopment of to artificial ne echniques in c chitectures usi	nes from deep deep learning ural networks, deep learning. ng Python and will also gain els.
Reference	ces	Main :									
		2 To	. Géron, A ensorFlov	Aurélien. <i>Ha</i>	ands-o	n ma	chine	lear	ning with S	dge: MIT pre Scikit-Learn, ild intellige	ess, 2016. Keras, and nt systems.
		Supporte	rs:								
Supporti lecturer	ing										
Week-	eac lear stag	ities of h ning	Endicator	Weigh		Assessment Weight (%)					
(1)		(2)	(3)	(4)		(5)		((6)	(7)	(8)

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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.
- 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 main points and sub-topics.
- 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%.

 ${\bf 12.\ TM\text{--}Face\ to\ face,\ PT\text{--}Structured\ assignments,\ BM\text{--}Independent\ study.}$