

Universitas Negeri Surabaya Faculty of Engineering Civil Engineering Undergraduate Study Program

Document Code

SEMESTER LEARNING PLAN

Courses		COD	E	Course Family	9	Cred	it We	ight	SEMES	TER	Con Date	npilati e	on
Road-Bridge Building Design **		2220104083			T=4 P		P=0	ECTS=6.36	5 1		July	18, 20)24
AUTHORIZATION		SP Developer				Course Cluster Coordinator				Study Program Coordinator			
									Yogie F	lisdia≀	nto, S	б.Т., М	T.
Learning model	Project Based Learning												
Program Learning	PLO study program that is charged to the course												
Outcomes	Program Ol	ojectiv	ves (PO)										
(PLO)	PLO-PO Matrix												
	P.O												
	PO Matrix at the end of each learning stage (Sub-PO)												
		P.0			Week								
			1 2 3 4	4 5 0	3 7	8	9	10 11 1	12 13	14	15	16	
									I I			<u> </u>	
Short Course Description	geometric de requirements material sou base/topogra analysis for accommodati retaining wall (Environment according to established s and road tech the road, Def radius, techn made taking situation draw drawings in a buildings, roa out by applyi	sign o, , identi rces, phic m drain ed in s). Tra al Mo the es tandar mical c ermina ical ge into ac vings (accorda d equi ng a c	application of f highways and fy road alignme technical and aps and geotec age system d the design of ffic surveys, Tra nitoring Plan), stablished plans ds, Heaviest Ax lata, Highway pa tion of Rumaja, ometric calculat count earthwor plans), longituc ance with applic pment and draii onstructivist app oridge geometry	d bridgesent condi environi hnical, ge lesign. A road cor affic Engi landscar . The a, de Load, avement , Rumija ions, dra ks and a tinal sect able regunage sys proach. T	Inve tions, mental eologic analysis mpleme ineerin desigr plannir desigr plannir and Ri ft situa pplicat ions (p ulations tems in	ntory locati con cal ar s of entary g, R sign, iate of n age ng, D uwas ation ole re orofile s and n acc	seco on of idition id hyc soil y buil (L (Er AMD) calcula of th eterm ja, Cr idrawii sgulati ss) an i stan ordan	ndary data complemen s, verificatii trological da mechanics dings (filling nvironmental AL, types c attion metho e road, roac ination of the eroad, roac ination of the gs (plans) a ons, data c d cross sect d cross sect dards, desig ce with desi	needs acc tary buildi on of lar ta. Hydrola and ger , excavat Managen d is deter materials system, f span spe and longitu loculations ions (cross on drawing gn criteria.	cordin ngs a ogical otechi ion, s nent F ent ar minec s usec unctic ed, sl udinal and p s sect s of c . Lear	ng to and lo se co l and nical slope Plan) re de d acc d, clin on and lope, cuts plan o tions) compl rning	plann pocation onditio hydrau data stabil and R etermin ording nate da d class minim (profil drawin l, detai ement is carr	ing of ons, ulic lity, RPL ata s of um les) gs, iled ary ried
References	Main :												

	2. [F 3. [4. 5. 5. 6. \ 7. [3] 8. s 9. s	Association o Departemen Raya dengan Departemen Perkerasan K Hendarsin, S Politeknik Ne Huang, Yang Vidayanti, Ar Departemen Jakarta: Pene Suri. 2003. Si Sutanto. 1992 Construction	f State Highway an Pekerjaan Umum. Metode Analisa Ko Pekerjaan Umum Caku (Beton Semen Shirley L. 2000. Po geri Bandung, Juru H. 1993. Pavemen i. 2013. Rekayasa Pekerjaan Umum. erbit PU istem Drainase Per 2. Pedoman Draina	d Transpo 1987. Per omponen . Direktor). enuntun P san Teknik t Analysis Jalan Raya 1997. Tai kotaan yar se Jalan R	tunjuk Perencanaan Te Jakarta: Penerbit Yaya: at Jenderal Bina Ma Iraktis Perencanaan T	ebal Perkerasar san Badan Pene rga. Pedoman eknik Jalan Ra ey: Prentice Hal nesa. Geometrik Jala arang: Penerbit J Universitas Indo	n Lentur Jalan erbit PU. Perencanaan aya. Bandung: I. I. I. Antar Kota. Andi. unesia.
Support lecturer	Purwo Ma	ahardi, S.T.,					
	Final abilities of each	ad Firmansyah Sofianto, S.T., M Evaluation		Le: Stud	Help Learning, arning methods, lent Assignments, Estimated time]	Learning materials	Assessment
Week-	learning stage (Sub-PO)	Indicator	Criteria & Form	Offline (offline)	Online (<i>online</i>)	References	Weight (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1				4 X 50			0%
2				4 X 50			0%
3				4 X 50			0%
4				4 X 50			0%
5				4 X 50			0%
6				4 X 50			0%
7				4 X 50			0%
8				4 X 50			0%
9				4 X 50			0%
10				4 X 50			0%
11				4 X 50			0%
12				4 X 50			0%
13				4 X 50			0%
14				4 X 50			0%
15				4 X 50			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.
- 5. **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 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%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.