

## Universitas Negeri Surabaya Vocational Faculty, D4 Transportation Study Program

Document Code

UNESA										
		SEMESTER	LEA	RNIN	IG F	PLAN				
Courses		CODE	Course Family	Credit Weight			SEMESTER	Compilati Date	on	
Road Complementary Building Planning		99993940104032		T=	2 P=2	ECTS=6	.36	3	July 17, 20	024
AUTHORIZATION		SP Developer		Course Cluster Coordinator				Study Program Coordinator		
_							Dr. Anita Susanti, S.Pd., M.T.			
Learning model	Project Base	iect Based Learning								
Program Learning	PLO study program that is charged to the course									
Outcomes	Program Objectives (PO)									
(PLO)	PLO-PO Matrix									
	P.O									
	PO Matrix at the end of each learning stage (Sub-PO)									
		P.O 1 2 3 4	5 6	7 8	Week	10 11	12	13 14	15 16	
Short Course Description	design of high road alignmer and environme geological and soil mechanic (filling, excava Management are determine according to e data and road the road, Dete technical geor into account e (plans), longif with applicable drainage systemand environment of the properties of the proper	an application of civil eng ways and bridges. Inventor to conditions, location of cental conditions, verification of hydrological data. Hydrological data. Hydrologis and geotechnical data attion, slope stability, retainiplan) and RPL (Environme ed according to the established standards, Heastablished standards applicable in ergulations and standards ergulations and standards en accordance with delearning activity ends with	y second complements of land ogical and is accoming walls) notal monitoring the land of la	ary data ntary bui use con il hydrauli modated . Traffic toring Plalans. Th Load, de blanning, wasja, Cawings (jas, data c sections drawings teria. Le	needs addings addings addings addings addings according to the sourcest and a ding adding add	according the and locatic base/topo sis for draded design of the control of the c	to plate on of ographinage of road, sign, alcula oad, the stan spudina olan odetary but out	anning require material sou whic maps and e system deside compleme eering, RKL MADAL, type tion method road materials system, functifuction for the ced, slope, more alled drawings, situildings, road by applying a	ements, ider irces, techni d geotechni gn. Analysis ntary buildin (Environmei es of pavem is determin s used, clim on and class ininimum rad is) made tak action drawin en accorda e equipment a a constructi	ntify ical, ical, s of ngs ntal nent ned nate s of lius, king nce and ivist
References	Main :									

- 1. AASHTO. 1986. Guide for Design of Pavement Structures . Washington DC: American Association of State Highway and Transportation Officials.
- 2. Departemen Pekerjaan Umum. 1987. Petunjuk Perencanaan Tebal Perkerasan Lentur Jalan Raya dengan Metode Analisa Komponen. Jakarta: Penerbit Yayasan Badan Penerbit PU.
- 3. Departemen Pekerjaan Umum. Direktorat Jenderal Bina Marga. Pedoman Perencanaan Perkerasan Kaku (Beton Semen).
- 4. Hendarsin, Shirley L. 2000. Penuntun Praktis Perencanaan Teknik Jalan Raya. Bandung: Politeknik Negeri Bandung, Jurusan Teknik Sipil.
- 5. Huang, Yang H. 1993. Pavement Analysis and Design . New Jersey: Prentice Hall.
- Widayanti, Ari. 2013. Rekayasa Jalan Raya. Surabaya: JTS FT Unesa.
   Departemen Pekerjaan Umum. 1997. Tata Gara Perencanaan Geometrik Jalan Antar Kota. Jakarta: Penerbit PU
- $Suri.\ 2003.\ Sistem\ Drainase\ Perkotaan\ yang\ Berkelanjutan.\ Semarang:\ Penerbit\ Andi.$
- Sutanto. 1992. Pedoman Drainase Jalan Raya. Jakarta: Penerbit Universitas Indonesia.
- 10. Construction and Building Materials Journal, homepage: www.elsevier.com/locate/conbuildmat .

Supp	orters:
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Supporting lecturer

Purwo Mahardi, S.T., M.Sc.

Wook	Final abilities of each learning stage (Sub-PO)	Evaluation		l Lea Stud	Help Learning, arning methods, ent Assignments, Estimated time]	Learning materials	Assessment
Week-		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.
- 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.
- 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%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.