

## Universitas Negeri Surabaya Faculty of Engineering Civil Engineering Undergraduate Study Program

Document Code

SEMESTER LEARNING PLAN												
Courses			CODE		Course F	Course Family		Credit Weight		SEMESTER	Compilation Date	
Construction Quality Control				2220102079				T=2	P=0	ECTS=3.18	5	July 18, 2024
AUTHORIZATION			SP Developer			Cours	Course Cluster Coordinator			Study Program Coordinator		
										Yogie Risdianto, S.T., M.T.		
Learning model	l	Case Studies										
Program Learning Outcomes (PLO)		PLO study program that is charged to the course										
		Program Objectives (PO)										
		PLO-PO Matrix										
		P.O										
	P.O Matrix at the end of each learning stage (Sub-PO)    P.O											
						15 16						
Short Course Descript						uction industry.						
Referen	ces	Main :										
<ol> <li>Soeharto Iman. 2001. Manajemen Pro</li> <li>M. Z. T. Yuri, Nurcahyo Rahmat. 20 Indeks.</li> <li>Mears Peter. 1995. QualityImprovement</li> </ol>		Anastasia. 2001. Total Quality Management. Yogyakarta: Penerbit ANDI. Inajemen Proyek dari Konseptual Sampai Operasional Jilid 2.Jakarta: Erlangga.  Rahmat. 2013. TQM Manajemen Kualitas Total dalam Perspektif Teknik Industri.Jakarta: tylmprovement Tools & Techniques. New York: McGraw-Hill.  t. al. 1997. ISO 9000 Untuk Kontraktor. Jakarta:Gramedia Pustaka Umum. ngineering and Management (ASCE)										
		Supporters:										
Supporting lecturer		Ir. Mas Suryanto H.S., S.T., M.T. Dr. Gde Agus Yudha Prawira Adistana, S.T., M.T. Puguh Novi Prasetyono, S.Pd., M.T.										
Week- eac		· L DO		Evaluation			Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [ References	Assessment Weight (%)		
	(Su	D-PO)	li	ndicator	Criteria & F		ffline ( ffline )	C	nline	( online )	1	
(1)		(2)		(3)	(4)		(5)			(6)	(7)	(8)

1	Understand the meaning, history and quality management	Students can state the meaning and tell the history of quality	Criteria: Essay 100%	Lectures, discussions and	0%
	management system.	nistory of quality		questions and answers 2 X 50	
2	Understand project quality management and QA/QC organizations.	1.Students can state the objectives of project quality management and explain its aspects 2.Students can describe the QA/QC Organizational Structure and the duties and responsibilities of each personnel	Criteria: Essay 100%	Lectures, discussions and questions and answers 2 X 50	0%
3	Understand construction project quality assurance & control	Students can explain construction project quality assurance & control	Criteria: Essay 100%	Lectures, discussions and questions and answers 2 X 50	0%
4	Understand quality control at the project stage.	1.Students can explain quality control at the engineering design stage     2.Students can explain quality control at the procurement stage     3.Students can explain quality control at the construction stage	<b>Criteria:</b> Essay 100%	Lectures, discussions and questions and answers 2 X 50	0%
5	Understand and calculate quality costs	Students can calculate and group quality costs and explain their behavior	Criteria: Essay 100%	Lectures, discussions and questions and answers 2 X 50	0%
6	Understand the quality management system	Students can explain the quality management system	Criteria: Essay 100%	Lectures, discussions and questions and answers 2 X 50	0%
7	Understand the basics of Statistical Process Control, Flow Charts, and Check Sheets for quality control	1.Students can explain the use of Statistical Process Control tools for quality control 2.Students can make flow charts for quality control 3.Students can create check sheets for quality control	Criteria: Essay 100%	Lectures, practice questions, discussions 2 X 50	0%
8	Meeting 01 - 06	Meeting 01 - 06	Criteria: Essay 100%	Midterm Exam (UTS) 2 X 50	0%

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9	Understanding Pareto's Diagrams and Cause and Effect Diagrams for quality control	1.Students can draw Pareto's Diagram for quality control 2.Students can draw Cause and Effect Diagrams for quality control	Criteria: Essay 100%	Lectures, practice questions, discussions 2 X 50	0%
10	Understand the creation and use of Histograms for quality control	1.Students can make a     Histogram     2.Students can explain the use of     Histograms for quality control	Criteria: Essay 100%	Lectures, practice questions, discussions 2 X 50	0%
11	Understand the creation and use of Scatter Diagrams for quality control	1.Students can create a Scatter Diagram 2.Students can explain the use of Scatter Diagrams for quality control	Criteria: Essay 100%	Lectures, practice questions, discussions 2 X 50	0%
12	Understand the creation and use of Control Chart Diagrams for quality control	1.Students can create Control Chart Diagrams 2.Students can explain the use of Control Chart Diagrams for quality control	Criteria: Essay 100%	Lectures, practice questions, discussions 2 X 50	0%
13	Understand the quality control of building construction projects	Students can present quality control of building construction projects	Criteria: Essay 100%	Presentation, group discussion 2 X 50	0%
14	Understand the quality control of road and bridge projects	Students can present quality control of road and bridge projects	Criteria: Essay 100%	Presentation and discussion 2 X 50	0%
15	Understand the quality control of water construction projects	Students can present quality control of water construction projects	Criteria: Essay 100%	Presentation, group discussion 2 X 50	0%
16					0%

**Evaluation Percentage Recap: Case Study** 

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.
- 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%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.