

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

Document Code

SEMESTER LEARNING PLAN

Courses		CODE		Cour	Course Family		Cre	Credit Weight			SI	EMES	TER	Cor Dat	npilation e			
Industrial Management			4520102116 Compu Program		oulsory am Si	/ Stu ubjec	tudy T=2 P=0 ECTS=3.18			8	6	i	Apri 202	il 30, 3				
AUTHORIZAT	ION		SP Develop	er				(Cours	se Clu	ıster	Coord	linator	St	tudy P	rograr	m Coc	ordinator
			Diah Hari Kusumawati, M.Si			(Diah Hari Kusumawati, M.Si			Ρ	Prof. Dr. Munasir, S.Si., M.Si.							
Learning model	Project Based Learning																	
Program	PLO study pr	PLO study program that is charged to the course																
Outcomes	Program Obje	ective	es (PO)															
(PLO)	PO - 1	PO - 1 Students are expected to understand aspects of management, the concept of planning and controlling operations, strategic aspects of production/operations management, and be able to analyze operational problems by paying attention to the relationship between operational decisions and decisions of other functions.																
	PO - 2	Stude	ents are expe	cted t	to und	erstand th	າe ISC) star	ndard	mana	geme	ent sys	stem					
	PO - 3	Stude syste	ents are expe em	cted	to un	derstand	and b	be ab	ole to	apply	/ the	Occup	oational	Safe	ety and	d Healt	th ma	nagement
	PLO-PO Matri	ix																
			P.O PO-1 PO-2 PO-3															
	PO Matrix at t	the er	nd of each le	arni	ng sta	age (Sub)-PO)											
			P.0								Wee	k						
				1	2	3 4	5	6	7	8	9	10	11	12	13	14	15	16
		Р	0-1															
		Р	0-2															
		Р	O-3															
Short Course Description	Students are e aspects of prod between opera systems (ISO) a	expecte uction tional and O	ed to underst /operations m decisions and ccupational Sa	and anag d de afety	aspec ement cisions and H	ts of mai t, and be s of othe ealth (K3)	nagem able to r func).	nent, o ana tions	the c lyze c . Stu	conce operat dents	pt of tional are	plann proble also ii	ing and ems by p ntroduce	con cayin ed to	trolling g atter stand) opera ntion to dardize	ations the re d ma	, strategic elationship nagement
References	Main :																	
	 Doc Palmer. 1999. Maintenance Planning and Scheduling Handbook . Mc Graw Hill. Anizar. 2013. Teknik Kesehatan dan Keselamatan Kerja di Industri . Graha Ilmu Amin Syukron. 2011. Pengantar Manajemen Industri . Graha Ilmu Muhammad Ali. 2011. Modul Kuliah Manajemen Industri . FT-UNY 																	
	Supporters:																	
Supporting lecturer	Diah Hari Kusu Dr. Fitriana, S.S	mawa Si.	ti, S.Si., M.Si.				_						_		_	_	_	

Week-	Final abilities of each learning stage	Eva	luation	He Lear Studer [Es	elp Learning, ning methods, nt Assignments, stimated time]	Learning materials	Assessment Weight (%)
	(Sub-PO)	Indicator	Criteria & Form	Offline(offline)	Online (online)	[References]	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Students can understand company management	Students explain: Management functions Management elements Responsibilities of a manager	Criteria: Quantitative non- test Form of Assessment : Participatory Activities	Lectures and discussions 2x50 minutes	Independent assignments 2x50 minutes	Material: Introduction to Industrial Management: Basics of Management, Planning, Organizing, Staffing, Leading, Controlling Reader: Muhammad Ali. 2011. Industrial Management Lecture Module. FT- UNY	2%
2	Students understand company leadership and can plan and organize	Students understand: • The spirit of company leadership • How to plan company management steps • How to organize in company management	Criteria: Independent task Form of Assessment : Participatory Activities	2 x 50 minute discussions	Independent assignments 2x50 minutes	Material: Company management process Reference: Doc Palmer. 1999. Maintenance Planning and Scheduling Handbook. McGraw Hill. Material: Company management process Reader: Muhammad Ali. 2011. Industrial Management Lecture Module. FT- UNY	2%
3	Students understand the forms or types of company management	Students explain professionally the mechanisms for handling business in company management settings	Criteria: Quantitative non- test Form of Assessment : Portfolio Assessment	2 x 50 minute discussions	Independent assignments 2x50 minutes	Material: • Production Management • Marketing Management Reader: Amin Syukron. 2011. Introduction to Industrial Management. Science House Material: • Production Management • Marketing Management Reader: Muhammad Ali. 2011. Industrial Management Lecture Module. FT- UNY	2%

4	Students understand the forms or types of company management	Students explain professionally the mechanisms for handling business in company management settings	Criteria: Quantitative non- test Form of Assessment : Participatory Activities, Portfolio Assessment	2 x 50 minute discussions	Independent assignments 2x50 minutes	Materials: • Financial Management • Human Resources Management Reader: Amin Syukron. 2011. Introduction to Industrial Management. Science House Materials: • Financial Management • Human Resources Management Reader: Muhammad Ali. 2011. Industrial Management Lecture Module. FT- UNY	3%
5	Students understand the principles of decision making	Students explain: • The meaning of decision making • Principles of decision making • Steps in making decisions • Looking for possible solutions	Criteria: Quantitative non- test Form of Assessment : Participatory Activities	2 x 50 minute discussions	Discussion, independent assignment 2x50 minutes	Material: Decision makers: • Principles of decision Types of decisions Reader : Amin Syukron. 2011. Introduction to Industrial Management. Science House Material: Decision makers: • Principles of decisions Reader : Muhammad Ali. 2011. Industrial Management Lecture Module. FT- UNY	2%

6	Students understand production control	students explain: ■ Production planning ■ Production targets	Criteria: Quantitative non- test Form of Assessment : Participatory Activities	2 x 50 minute discussions	Material: Production planning and control Production planning ■ Production targets Reference: Doc Palmer. 1999. Maintenance Planning and Scheduling Handbook. McGraw Hill. Material: Production planning and control Production planning ■ Production targets Reference: Amin Syukron. 2011. Introduction to Industrial Management. Science House	3%
7	Students understand production control	Students are able to explain ■ Production scheduling ■ Production control	Criteria: Quantitative non- test Form of Assessment : Portfolio Assessment	2 x 50 minute discussions	Material: Production planning and control Production planning ■ Production targets Reference: Amin Syukron. 2011. Introduction to Industrial Management. Science House Material: Production planning and control ■ Production scheduling ■ Production control Reference: Doc Palmer. 1999. Maintenance Planning and Scheduling Maintenance Planning and Scheduling Handbook. McGraw Hill.	3%

8	UTS	Students are able to do all the test questions provided correctly	Criteria: Quantitative tests Form of Assessment : Test	Written test 2x50 minutes		Material: Meetings 1-7 Reference: Doc Palmer. 1999. Maintenance Planning and Scheduling Handbook. McGraw Hill. Material: Meetings 1-7 Reader: Amin Syukron. 2011. Introduction to Industrial Management. Science House Material: Meetings 1-7 Reader: Muhammad Ali. 2011. Industrial Management Lecture Module. FT- UNY	15%
9	Students understand quality control and its standards in company management	Students can explain: 1. Organization for quality control 2. Quality standards 3. Responsibility for quality 4. Inspection	Criteria: Independent assignment Form of Assessment : Project Results Assessment / Product Assessment	2 x 50 minute discussions	Independent assignments 2x50 minutes	Material: Quality control and standardization (ISO): • Organization for quality control • Quality standards • Responsibility for quality • Bibliography : Muhammad Ali. 2011. Industrial Management Lecture Module. FT- UNY	5%
10	Students understand: a. The role of humans in the company b. Workforce placement	Students can explain 1. the role of humans in a company 2. Can place workers according to their fields	Criteria: Quantitative non- test Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment	Class discussion 2 x 50 minutes	Independent assignment 2x50 minutes	Material: Personnel management: The role of humans. Workforce placement. Reference: Doc Palmer. 1999. Maintenance Planning and Scheduling Handbook. McGraw Hill.	5%

11	Students understand Occupational Safety and Health management	Students can explain: 1. Policies in K3 2. Various activities that can endanger the health and safety of workers in carrying out their professional activities, and know the things that must be prepared to overcome them	Criteria: Quantitative non- test Form of Assessment : Project Results Assessment / Product Assessment	2 x 50 minute discussions	Independent assignments 2x50 minutes	Material: Occupational Safety and Health Management (K3) Reference: Anizar. 2013. Occupational Health and Safety Engineering in Industry. Science House Material: Occupational Safety and Health Management (K3) Reference: Muhammad Ali. 2011. Industrial Management Lecture Module. FT- UNY	5%
12	Students are able to plan a form of company management and convey it in a report and poster product	Progress on creating a form of company and/or MSME management in the environment where students live	Criteria: Poster product progress Form of Assessment : Project Results Assessment / Product Assessment		Independent assignment 2x50 minutes	Material: Meetings 1-11 Reader: Doc Palmer. 1999. Maintenance Planning and Scheduling Handbook. McGraw Hill.	5%
13	Students are able to plan a form of company management and convey it in a report and poster product	Progress on creating a form of company and/or MSME management in the environment where students live	Criteria: Poster product progress Form of Assessment : Project Results Assessment / Product Assessment		Independent assignment 2x50 minutes	Material: Meetings 1-11 Reader: Doc Palmer. 1999. Maintenance Planning and Scheduling Handbook. McGraw Hill. Material: Meetings 1-11 Reader: Muhammad Ali. 2011. Industrial Management Lecture Module. FT- UNY	5%
14	Students are able to plan a form of company management and convey it in a report and poster product	Progress on creating a form of company and/or MSME management in the environment where students live	Criteria: Poster product progress Form of Assessment : Project Results Assessment / Product Assessment		Independent assignment 2x50 minutes	Material: Meetings 1-11 Reader: Doc Palmer. 1999. Maintenance Planning and Scheduling Handbook. McGraw Hill. Material: Meetings 1-11 Reader: Muhammad Ali. 2011. Industrial Management Lecture Module. FT- UNY	5%

15	Students are able to plan a form of company management and convey it in a report and poster product	Progress on creating a form of company and/or MSME management in the environment where students live	Criteria: Poster product progress Form of Assessment : Project Results Assessment / Product Assessment		Independent assignment 2x50 minutes	Material: Meetings 1-11 Reader: Doc Palmer. 1999. Maintenance Planning and Scheduling Handbook. McGraw Hill. Material: Meetings 1-11 Reader: Muhammad Ali. 2011. Industrial Management Lecture Module. FT- UNY	8%
16	UAS	Product presentation in the form of a poster	Criteria: Presentation of each group's products as UAS scores Form of Assessment : Project Results Assessment / Product Assessment, Test	2x50 minute presentations	2x50 minute presentations	Material: Meetings 12- 15 Reader: Doc Palmer. 1999. Maintenance Planning and Scheduling Handbook. McGraw Hill. Material: Meetings 12- 15 Reader: Anizar. 2013. Occupational Health and Safety Engineering in Industry. Science House Material: Meetings 12- 15 Reader: Amin Syukron. 2011. Introduction to Industrial Management. Science House Material: Meetings 12- 15 Reader: Muhammad Ali. 2011. Industrial Management Lecture Module. FT- UNY	30%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	10.5%
2.	Project Results Assessment / Product Assessment	50.5%
3.	Portfolio Assessment	9%
4.	Test	30%
		100%

Notes

- 1. 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.
- 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.