
 Universitas Airlangga	SEMESTER LEARNING PLAN		Prepared by	Examined by	Approved by	Document Registration Number
	SLP		(Person in Charge)	(Head of Bachelor Program / Head of Department)	Vice Dean I	01/S1Kesmas/RPS/2019
			Revision - Date	January 1 st , 2019	Meirina Ernawati, drh., M.Kes.	
Faculty of Public Health	Valid on Semester (odd/even) / Academic Year	Even Semester	(sign)	(sign)	(sign)	

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A. DETAILS OF COURSE


1. Course Name	Industrial Hygiene I
2. Course Code	KMK106
3. Credits (SKS)	2 (two) SKS
4. Semester / Term	VI (sixth)
5. Study Program	Bachelor of Public Health
6. Student Learning Achievement	1. Able to carry out a study and analysis of the situation 2. Able to develop program policies and planning 3. Able to understand the local culture
7. Course Learning Achievement	1. Define the problem correctly 2. Evaluate data integrity and comparability 3. State the policy choices and formulate them clearly and concisely 4. Decide the appropriate action with the problem at hand 5. Understand the importance of diverse Public Health workers (Attitudes)
8. Course Description	This course discusses 1) The concept of industrial hygiene (physical factors, chemical factors, biological factors), 2) TLV and PPE, 3) Industrial ventilation, 4) Canteen, 5) House keeping, 6) RTH, 7) Company Sanitation Facilities
9. Course Prerequisites (if any)	None
10. Instructor	Meirina Ernawati, drh., M.Kes.
11. Teaching Assistants	1. Dr. Noeroel Widajati, S.KM., M.Sc 2. Dani Nasirul Haqi, S.KM., M.KKK 3. Putri Ayuni Alayyannur, S.KM., M.KKK

B. TEACHING PROGRAM

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Week	Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)	Study Materials	Teaching Methods	Additional Materials for Learning	Meeting Time	Course Objectives	Criteria and Indicator of Evaluation / Measurable Learning Outcome (<i>hard and soft skills</i>)	Mark / Grade / Percentage (%)	Reference Number Ref. (number)
1	2	3	4	5	6	7	8	9	10
1	Students are able to understand the scope and history of the development of industrial hygiene	General description of industrial hygiene 1. Lecture contract 2. Introduction to industrial hygiene 3. History of industrial hygiene in the world and in Indonesia	Lecture Discussion Simulation	Teaching materials LCD Handout	2x50 minutes	1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses	Showing complex thinking and collaborating	7,14%	1-4
2	Students are able to understand and explain the physical factors of lighting.	General description of the physical factors of lighting. 1. Definition of lighting 2. The scope of lighting in the work environment 3. Safe lighting limits in the	Lecture Discussion Simulation	Teaching materials LCD Handout	2x50 minutes	1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses	Showing complex thinking and collaborating	7,14%	1-4

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1	2	3	4	5	6	7	8	9	10
		work environment 4. Good lighting layout 5. Laws related to lighting							
3	Students are able to understand and explain the concept of housekeeping in the work environment	General description of housekeeping in the work environment. 1. Definition of housekeeping 2. The scope of housekeeping in the work environment 3. Good housekeeping process	Lecture Discussion Simulation	Teaching materials LCD Handout	2x50 minutes	1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses	Showing complex thinking and collaborating	7,14%	1-4

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1	2	3	4	5	6	7	8	9	10
4	Students are able to understand and explain the company canteen.	General description of the company canteen. 1. Definition of company canteen 2. The scope of the company canteen 3. Company canteen requirements 4. Good corporate canteen layout 5. Laws and regulations relating to company canteens	Lecture Discussion Simulation	Teaching materials LCD Handout	2x50 minutes	1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses	Showing complex thinking and collaborating	7,14%	1-4
5	Students are able to understand and explain ventilation systems in industry	General description of ventilation in the industry.	Lecture Discussion Simulation	Teaching materials LCD Handout	2x50 minutes	1. Asking questions and discussing 2. Pay attention and discussion	Showing complex thinking and collaborating	7,14%	1-4

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1	2	3	4	5	6	7	8	9	10
		1. Definition of ventilation in the industry 2. The scope of ventilation in the industry 3. Requirements for ventilation in industry 4. Good industrial ventilation layout 5. Legislation relating to ventilation in industry				3. Take notes and provide responses			
6	Students are able to understand and explain TLV and APD	General description of TLV and APD.	Lecture Discussion Simulation	Teaching materials LCD Handout	2x50 minutes	1. Asking questions and discussing 2. Pay attention and discussion	Showing complex thinking and collaborating	7,14%	1-4

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1	2	3	4	5	6	7	8	9	10
		1. Understanding TLV and APD in the industry 2. The scope of TLV and APD in the industry 3. APD requirements in the industry 4. Management of APD management in the industry 5. Regulations related to TLV and APD in the industry				3. Take notes and provide responses			
7	Students are able to understand and explain the Green Open Space and	General description of Green Open Space and Sanitation	Lecture Discussion Simulation	Teaching materials LCD Handout	2x50 minutes	1. Asking questions and discussing 2. Pay attention and discussion	Showing complex thinking and collaborating	7,14%	1-4

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1	2	3	4	5	6	7	8	9	10
	Sanitation Facilities in the industry	Facilities in the industry. 1. Definition of Green Open Space and Sanitation Facilities in the industry 2. The scope of Green Open Space and Sanitation Facilities in the industry 3. Requirements for Green Open Space and Sanitation Facilities in the industry				3. Take notes and provide responses			

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1	2	3	4	5	6	7	8	9	10
		4. Good layout of Green Open Space and Sanitation Facilities in the industry 5. Legislation relating to Green Open Space and Sanitation Facilities in the industry							
MID TERM EXAMINATION									
8	Students are able to understand and explain noise in industry	General description of noise in the industry. 1. Understanding noise in the industry 2. Types of noise	Lecture Discussion Simulation	Teaching materials LCD Handout	2x50 minutes	1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses	Showing complex thinking and collaborating	7,14%	1-4

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1	2	3	4	5	6	7	8	9	10
		3. Safe limits on noise at work 4. Room requirements that meet the noise standards in the industry 5. Regulations related to noise in the industry 6. Ways to prevent noise at work							
9	Students are able to understand and explain the physical factors of heat in the industry	General description of physical factors of heat in the industry. 1. Understanding the physical factors of heat in the industry	Lecture Discussion Simulation	Teaching materials LCD Handout	2x50 minutes	1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses	Showing complex thinking and collaborating	7,14%	1-4

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1	2	3	4	5	6	7	8	9	10
		2. The safe limit for physical factors of heat in the workplace 3. Laws and regulations related to physical factors of heat in the industry 4. How to prevent physical factors from heat in the workplace 5. Management of the management of heat conditions in the workforce							

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1	2	3	4	5	6	7	8	9	10
10	Students are able to understand and explain the problems of vibration in the industry	General description of vibration in the industry. 1. Definition of vibration in the industry 2. Types of vibrations in the industry 3. Safe limits on vibration at work 4. Standard vibration in the industry 5. Regulations related to vibration in the industry	Lecture Discussion Simulation	Teaching materials LCD Handout	2x50 minutes	1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses	Showing complex thinking and collaborating	7,14%	1-4

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1	2	3	4	5	6	7	8	9	10
		6. Ways to prevent vibration in the workplace							
11	Students are able to understand and explain pressure problems (hypobaric and hyperbaric) in industry	General description of pressure (hypobaric and hyperbaric) in the industry. 1. Understanding pressure (hypobaric and hyperbaric) in the industry 2. Pressure differences (hypobaric and hyperbaric) in the industry 3. Safe limits of pressure	Lecture Discussion Simulation	Teaching materials LCD Handout	2x50 minutes	1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses	Showing complex thinking and collaborating	7,14%	1-4

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1	2	3	4	5	6	7	8	9	10
		(hypobaric and hyperbaric) in the workplace 4. Regulations related to pressure (hypobaric and hyperbaric) in the industry 5. Management of pressure prevention (hypobaric and hyperbaric) at work							
12	Students are able to understand and explain solid, liquid and gas waste management systems in industry	General description of industrial waste management systems.	Lecture Discussion Simulation	Teaching materials LCD Handout	2x50 minutes	1. Asking questions and discussing 2. Pay attention and discussion	Showing complex thinking and collaborating	7,14%	1-4

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1	2	3	4	5	6	7	8	9	10
		1. Understanding industrial waste management systems 2. The scope of waste management systems in the industry 3. Requirements for a safe industrial waste management system 4. Types of industrial waste management systems that are good				3. Take notes and provide responses			

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1	2	3	4	5	6	7	8	9	10
		5. Strengths and weaknesses of each waste management system in the industry 6. Laws and regulations related to industrial waste management systems							
13	Students are able to understand and explain solid, liquid and gas waste management systems in industry	General description of industrial waste management systems. 1. Understanding industrial waste management systems	Lecture Discussion Simulation	Teaching materials LCD Handout	2x50 minutes	1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses	Showing complex thinking and collaborating	7,14%	1-4

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1	2	3	4	5	6	7	8	9	10
		2. The scope of waste management systems in the industry 3. Requirements for a safe industrial waste management system 4. Types of industrial waste management systems that are good 5. Strengths and weaknesses of each waste management							

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1	2	3	4	5	6	7	8	9	10
		system in the industry 6. Laws and regulations related to industrial waste management systems							
14	Students are able to understand and explain solid, liquid and gas waste management systems in industry	General description of industrial waste management systems. 1. Understanding industrial waste management systems 2. The scope of waste management systems in the industry	Lecture Discussion Simulation	Teaching materials LCD Handout	2x50 minutes	1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses	Showing complex thinking and collaborating	7,14%	1-4

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1	2	3	4	5	6	7	8	9	10
		3. Requirements for a safe industrial waste management system 4. Types of industrial waste management systems that are good 5. Strengths and weaknesses of each waste management system in the industry 6. Laws and regulations related to industrial waste							

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1	2	3	4	5	6	7	8	9	10
		management systems							
FINAL TERM EXAMINATION									

C. REQUIRED TEXTS / REFERENCES / ESSENTIAL READINGS

1. Encyclopedia K3
2. Suma'mur PK. Higiene Perusahaan & Kesehatan Kerja, 2009
3. Kumpulan peraturan perundangan di bidang K3
4. UU No. 1 Tahun 1970; UU No. 13 tahun 2003; UU No. 13 Tahun 2011