
 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 1st, 2019	Dr. Atik Choirul Hidajah dr., M.Kes.	Dr. Diah Indriani, S.Si., M.Si	
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	Epidemiology of Cancer
2. Course Code	KME403
3. Credits (SKS)	3 (three) SKS
4. Semester / Term	VI (sixth)
5. Study Program	Bachelor of Public Health
6. Student Learning Achievement	After attending this course students are expected to have the ability to be able to explain the descriptive epidemiology of cancer that is a health problem in Indonesia, and apply the principles of research methods for cancer
7. Course Learning Achievement	Students able to explain the descriptive epidemiology of cancer that is a health problem in Indonesia, and apply the principles of research methods for cancer
8. Course Description	In this course, the concepts of cancer epidemiology, carcinogen toxicology, and descriptive epidemiology of cancer are the problems in Indonesia (lung cancer, cervix, nasopharynx, leukemia, breast, liver, and colorectal). In addition, an epidemiological study of cancer will be presented and the basis of conducting a critical review of cancer research results that have been published. The last two topics will be implemented by giving assignments to undertake a critical review of articles whose results will be presented at a seminar presentation.
9. Course Prerequisites (if any)	Basic Epidemiology, Epidemiology of Communicable Disease, Epidemiology of Non Communicable Disease
10. Instructor	Dr. Atik Choirul Hidajah, dr., M.Kes
11. Teaching Assistants	

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 (hard and soft skills)	Mark / Grade / Percentage (%)	Reference Number Ref. (number)
1	2	3	4	5	6	7	8	9	10
1	Explain the concept of epidemiology of cancer	Concept of epidemiology of cancer 1 Definition the epidemiology of cancer 2 History of cancer epidemiology 3 The burden of cancer 4 Pathogenesis of cancer	Lectures Discussions	Teaching material, LCD, Whiteboard	2x50 minutes		Discipline, communication, complex thinking		28, 37, 42
2	Explain neoplasia	Carcinogenic toxicology 1. Definition of neoplasia 2. Type of neoplasia 3. Definition of toxicology	Lectures Discussions	Teaching material, LCD, Whiteboard	2x50 minutes		Discipline, communication, complex thinking		34, 36, 44

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1	2	3	4	5	6	7	8	9	10
		4. Definition of a carcinogen 5. Types of carcinogens 6. Classification of carcinogens 7. Carcinogenesis process							
3	Explain the toxicology of carcinogens	Carcinogenic toxicology 1. Definition of neoplasia 2. Type of neoplasia 3. Definition of toxicology 4. Definition of a carcinogen 5. Types of carcinogens	Lectures Discussions	Teaching material, LCD, Whiteboard	2x50 minutes		Discipline, communication, complex thinking		2, 13, 18, 25, 33, 39, 41, 46

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1	2	3	4	5	6	7	8	9	10
		6. Classification of carcinogens 7. Carcinogenesis process							
4	Explain the descriptive epidemiology of cancer which is a health problem in Indonesia	Lung Cancer Epidemiology 1 Definition 2 Clinical features 3 Number of events 4 Risk factors 5 Five level prevention	Lectures Discussions	Teaching material, LCD, Whiteboard	2x50 minutes		Discipline, communication, complex thinking		7, 15, 17, 18, 33, 41, 46
5	Explain the descriptive epidemiology of cancer which is a health problem in Indonesia	Epidemiology of Cervical Cancer 1 Definition 2 Clinical features 3 Number of events 4 Risk factors 5 Five level prevention	Lectures Discussions	Teaching material, LCD, Whiteboard	2x50 minutes		Discipline, communication, complex thinking		1, 10, 11, 12, 14, 18, 22, 33, 41, 43, 45, 46, 47

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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 (hard and soft skills)	Mark / Grade / Percentage (%)	Reference Number Ref. (number)
1	2	3	4	5	6	7	8	9	10
6	Explain the descriptive epidemiology of cancer which is a health problem in Indonesia	Epidemiology of Nasopharyngeal Cancer 1 Definition 2 Clinical features 3 Number of events 4 Risk factors 5 Five level prevention	Lectures Discussions	Teaching material, LCD, Whiteboard	2x50 minutes		Discipline, communication, complex thinking		16, 18, 23, 24, 26, 32, 33, 41, 46, 48
7	Explain the descriptive epidemiology of cancer which is a health problem in Indonesia	Epidemiology of Leukemia 1 Definition 2 Clinical features 3 Number of events 4 Risk factors 5 Five level prevention	Lectures Discussions	Teaching material, LCD, Whiteboard	2x50 minutes		Discipline, communication, complex thinking		4, 6, 9, 18, 31, 33, 41, 46, 49

MID TERM EXAMINATION

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1	2	3	4	5	6	7	8	9	10
8	Explain the descriptive epidemiology of cancer which is a health problem in Indonesia	Epidemiology of Breast Cancer 1 Definition 2 Clinical features 3 Number of events 4 Risk factors 5 Five level prevention	Lectures Discussions	Teaching material, LCD, Whiteboard	2x50 minutes		Discipline, communication, complex thinking		3, 18, 19, 27, 29, 30, 33, 38, 40, 41, 46
9	Explain the descriptive epidemiology of cancer which is a health problem in Indonesia	Epidemiology of Liver Cancer approaches in public health 1 Definition 2 Clinical features 3 Number of events 4 Risk factors	Lectures Discussions	Teaching material, LCD, Whiteboard	2x50 minutes		Discipline, communication, complex thinking		5, 8, 18, 21, 33, 35, 41, 46

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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 (hard and soft skills)	Mark / Grade / Percentage (%)	Reference Number Ref. (number)
1	2	3	4	5	6	7	8	9	10
		5 Five level prevention							
10	Explain the descriptive epidemiology of cancer which is a health problem in Indonesia	Colorectal Cancer Epidemiology 1 Definition 2 Clinical features 3 Number of events 4 Risk factors 5 Five level prevention	Lectures Discussions	Teaching material, LCD, Whiteboard	2x50 minutes		Discipline, communication, complex thinking		20, 42
11	Analyzing methods of measurement and study design of cancer	Epidemiological studies of cancer 1 Methods of measuring cancer 2 Design studies for cancer	Lectures Discussions	Teaching material, LCD, Whiteboard	2x50 minutes		Discipline, communication, complex thinking		50, 51

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1	2	3	4	5	6	7	8	9	10
12	Critically assess research on published cancer	Critical review of the article 1. Definition of critical study 2. Critical review method	Lectures Discussions Group assignment	Teaching material, LCD, Whiteboard	2x50 minutes		Discipline, communication, complex thinking		
13.	Design and present the results of critical review	1. Sort out the methods used in assessing articles 2. Criticize the results of research on cancer that has been published in the journal	Presentation	Teaching material, LCD, Whiteboard	2x50 minutes		Discipline, communication, complex thinking		


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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
		Interpreting the results of research on the article							
FINAL TERM EXAMINATION									


C. REQUIRED TEXTS / REFERENCES / ESSENTIAL READINGS

1. Adham, M., Kurniawan, A.N., Muhtadi, A.I., Roezin, A., Hermani, B., Gondhowiardjo, S., Tan, B., et al., 2012. Nasopharyngeal carcinoma in Indonesia: epidemiology, incidence, sign, and symptom at present, *Chin J Cancer*; Vol. 31 Issue 4, pp: 185-96.
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