
 Universitas Airlangga	<b>SEMESTER LEARNING PLAN</b>		<b>Prepared by</b>	<b>Examined by</b>	<b>Approved by</b>	<b>Document Registration Number</b>
	<b>SLP</b>		<b>Person in Charge</b>	<b>Head of Bachelor Program / Head of Department</b>	<b>Vice Dean I</b>	01/S1Kesmas/RPS/2019
	<b>Revision - Date</b>	<b>January 1<sup>st</sup>, 2019</b>	Lucia Yovita Hendrati, SKM.,M.Kes	Dr. Diah Indriani, S.Si., M.Si	Dr. Santi Martini, dr., M.Kes	
<b>Faculty of Public Health</b>	<b>Valid on Semester / Academic Year</b>	<b>Odd Semester 2019/2020</b>	<b>(sign)</b>	<b>(sign)</b>	<b>(sign)</b>	

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## A. DETAILS OF COURSE


<b>1. Course Name</b>	Basic Epidemiology
<b>2. Course Code</b>	KME201
<b>3. Credits (SKS)</b>	2 (two) SKS
<b>4. Semester</b>	II (second)
<b>5. Study Program</b>	Bachelor of Public Health
<b>6. Graduate Learning Outcomes</b>	After completing this lecture, students are expected to be able to understand the basic concepts of epidemiology and disease, calculate and use disease measures, standardization, and screening, and differentiating epidemiological research types and designs.
<b>7. Course Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Making relevant inferences from quantitative and qualitative data</li> <li>2. Defining, assessing, and understanding health status in the population, health determinants and diseases, and factors that contribute to health promotion and disease prevention</li> </ol>
<b>8. Course Description</b>	This course discusses the meaning and scope of epidemiology, causal concepts, and natural history of diseases, concepts of prevention, frequency measures, standardization, screening, disease patterns, and types of epidemiological research.
<b>9. Course Prerequisites (if any)</b>	None
<b>10. Instructor</b>	Lucia Yovita Hendrati, SKM.,M.Kes
<b>11. Teaching Assistants</b>	

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## B. TEACHING PROGRAM

Weeks	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 Indicators of Evaluation (hard and soft skills)	Grade (%)	Reference Number
1	2	3	4	5	6	7	8	9	10
1	Students are able to understand and explain the meaning and scope of epidemiology	1. Definition of Epidemiology 2. History of Epidemiology 3. Aims of Epidemiology 4. Nature of Epidemiology 5. Scope of Epidemiology 6. The Role of Epidemiology in Nutrition and Public Health	1. Lectures 2. Discussions	LCD, Whiteboard, and Laptop	2x50 minutes		1. Logical thinking 2. Critical thinking		Book 3 Book 4
2	Students are able to explain the concept of causes of diseases	1. Definition of Health, Pain and Disease 2. Development of theories of disease emergence	1. Lectures 2. Discussions	LCD and Laptop	2x50 minutes		1. Logical thinking 2. Critical thinking		Book 2 Book 3

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1	2	3	4	5	6	7	8	9	10
		3. Some concepts of disease causes 4. Host, agent, and environment							
3	Students are able to explain the Natural History of Diseases	1. Definition 2. Stages of disease onset (prepathogenesis and pathogenesis period) 3. Disease transmission mechanisms	1. Lectures 2. Discussions	LCD and Laptop	2x50 minutes		1. Logical thinking 2. Critical thinking		Book 1 Book 2
4	Students are able to explain the stages of disease prevention	1. Definition 2. Stages of disease prevention 3. Disease prevention strategies	1. Lectures 2. Discussions 3. Group assignments	LCD, Laptop, and Worksheet	2 x 50 minutes		1. Logical thinking 2. Critical thinking 3. Teamwork		Book 1 Book 2
5	Students are able to explain disease frequency measurement	1. The concepts of proportion, ratio, rate	1. Lectures 2. Discussions 3. Practical exercises	LCD, Laptop, Whiteboard,	2 x 50 minutes		Accuracy		Book 1 Book 2 Book 3

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<b>Weeks</b>	<b>Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)</b>	<b>Study Materials</b>	<b>Teaching Methods</b>	<b>Additional Materials for Learning</b>	<b>Meeting Time</b>	<b>Course Objectives</b>	<b>Criteria and Indicators of Evaluation (hard and soft skills)</b>	<b>Grade (%)</b>	<b>Reference Number</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
		2. Incident Numbers and their calculations 3. Prevalence Figures and Its Calculations 4. Use of Incidence and Prevalence Rates in public health programs		and Worksheet					
6	Students are able to explain health issues	1. Definition 2. Types 3. Purposes 4. Criteria of health problems 5. Validity and reliability of screening tools	1. Lectures 2. Discussions 3. Practical exercises	LCD, Laptop, Whiteboard, and Worksheet	2 x 50 minutes		1. Logical thinking 2. Critical thinking 3. Accuracy		Book 3
7	Students are able to explain standardization	1. Standardization concepts 2. Standard population	1. Lectures 2. Discussions 3. Practical exercises	LCD, Laptop, Whiteboard, and Worksheet	2 x 50 minutes		1. Logical thinking 2. Critical thinking 3. Accuracy		Book 2

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1	2	3	4	5	6	7	8	9	10
		3. Direct technique 4. Indirect technique							
<b>MID-SEMESTER EXAMINATION</b>									
8	Students are able to explain the pattern of disease	1. Patterns according to people 2. Patterns according to time 3. Patterns according to place	1. Lectures 2. Discussions 3. Case-study exercises	LCD, Laptop, Whiteboard, and Worksheet	2 x 50 minutes		1. Logical thinking 2. Critical thinking 3. Accuracy		Book 3 Book 4
9	Students are able to explain association relationships	1. The concept of association between variables of health problems 2. Association Types	1. Lectures 2. Discussions 3. Practical exercises	LCD, Laptop, Whiteboard, and Worksheet	2 x 50 minutes		1. Logical thinking 2. Critical thinking 3. Accuracy		Book 3 Book 5 Book 8

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<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
10	Students are able to explain the types and designs of epidemiological research	1. Types of and designs of epidemiological research 2. Definition of observational and experimental research 3. Definition of descriptive and analytic research	1. Lectures 2. Discussions 3. Practical exercises	LCD and Laptop	2 x 50 minutes		1. Logical thinking 2. Critical thinking 3. Accuracy		Book 3 Book 5 Book 8
11	Students are able to explain observational research	1. Types of observational research 2. Case Study 3. Case Series 4. Correlation Study 5. Cross-Sectional Study 6. Control Case Study 7. Cohort Study	1. Lectures 2. Discussions 3. Practical exercises	LCD and Laptop	2 x 50 minutes		1. Logical thinking 2. Critical thinking 3. Accuracy		Book 3 Book 5 Book 8

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1	2	3	4	5	6	7	8	9	10
12	Students are able to explain experimental research	1. Types of experimental research 2. Definition of pure and pseudo-experiment 3. Clinical trial 4. Field experiment 5. Community Intervention	1. Lectures 2. Discussions 3. Practical exercises	LCD and Laptop	2 x 50 minutes		1. Logical thinking 2. Critical thinking 3. Accuracy		Book 3 Book 5 Book 8
13.	Students are able to explain experimental research	1. Calculation of Odds Ratio 2. Calculation of Relative Risk 3. Application in epidemiological research	1. Lectures 2. Discussions 3. Practical exercises	LCD and Laptop	2 x 50 minutes		1. Critical thinking 2. Logical thinking 3. Accuracy		Book 3 Book 5 Book 8
<b>FINAL-SEMESTER EXAMINATION</b>									

## C. REQUIRED READINGS

### Compulsory Readings:

1. Bhisma Murti (1997) Prinsip Metode Riset Gadjah Mada Univ. Press Yogyakarta

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2. Klainbaum, DG et al (1992) Epidemiologic Research – Principles and Quantitative Methode Van Nastrand Reinhold Company – New York
  3. Mausner and Bahn, (1995) Epidemiology – An Introductory Text WB Saunders Company – Philadelphia
  4. Beaglehole R.,R.Bonita,T.Kjellstrom (1993), Dasar-Dasar Epidemiologi.Gadjah Mada University Press.Yogyakarta.
  5. Klainbaum, D G (2007) Pocket Guide to Epidemiology. Springer
  6. B.Burt Gerstman (2003). Epidemiology Kept Simple . An Introduction to Traditional and Modern Epidemiology. Second edition. Wiley-Liss.Canada
  7. 8.Gordis,L.,2004.Epidemiology.Third Edition. Philadelphia: Elsevier Saunders
  8. Thacker,S.B, 2000. History of Public Health Surveillans, dalam : Teuch, S.M., R.E., Churchil (eds): Principle and Practice of Public Health Surveillance, Second Edition, Oxford University Press Inc, New York.