Module Description: Epidemiology of Environmental Health

Epidemiologi Kesehatan Lingkungan

Module name	Modul Mata Kuliah
Module level, if applicable	Sarjana Kesehatan Masyarakat
Code, if applicable	343K1322
Subtitle, if applicable	-
Course, if applicable	Epidemiology of Environmental Health
Semester(s) in which the module is taught	VI
Person responsible for the module	Prof. Dr. drg. A. Arsunan Arsin, M.Kes
Lecturer	1. Dr. Wahiduddin, SKM, MKM 2. dr. H. Hasanuddin Ishak, P.Hd 3. Anwar Mallongi, SKM., M.Sc.,Ph.D 4. Ryza Jazid, SKM., MKM
Language	Indonesian Language [Bahasa Indonesia]
Relation to Curriculum	This course is a compulsory course and offered in the 6th semester.
Type of teaching, contact hours	Teaching methods used in this course are: 1. Lecture (small group discussion, discovery learning, presentation) 2. Structure assignments (essay, quiz, paper, literature review) The class size for lecture is approximately 50 students ntact hours for lecture is 23 hours, assignment is 28 hours for structured assignments, and 28 hours for independent learning
Workload	For this course, students are required to meet a minimum of 79 hours in one semester, which consist of: - 23 hours for lecture, - 28 hours for structured assignments, - 28 hours for independent learning,
Credit Points	2 credit points (equivalent with 3.17 ECTS)
Requirements according to the examination regulations	Students must have attended all classes and submitted all class assignments that are scheduled before the mid and final tests.
Recommended prerequisites	-
Module objectives/intended learning outcomes	After completing the course and given with an Epidemiology of Environmental Health: **CLO1:** Mahasiswa mampu menjelaskan tentang konsep epidemiologi lingkungan (P1) **CLO2:** Mahasiswa mampu menjelaskan aplikasi studi epidemiologi di bidang kesehatan lingkungan (KU) **CLO3:** Mahasiswa mampu menjelaskan dasar risk assesment, risk communication dan penggunaan biomarker (KK1)
Content	1. Kontrak belajar dan konsep epidemiologi lingkungan 2. Ecological study 3. Risk Assesment

	4. Risk Communication 5. Penggunaan biomarker 6. Critical appraisal terhadap laporan yang telah di publikasikan 7. Analisis dampak lingkungan
Forms of Assessment	1. Structured assignments (essay, quiz, case study): 20% 2. Individual and group presentation (paper and presentation): 35% 3. Written exam (Mid and Final Test): 35% 4. Class attendance and participation: 10%
Study and examination requirements and forms of examination	Study and Examination requirements: - Students must attend 15 minutes before the class starts - Students must switch off all electronic devices - Students must inform the lecturer if they will not attend the class due to sickness, etc. - Students must submit all class assignment before the deadline - Students must attend the exam to get final grade Form of examination: Written exam: Essay/Multiple Choice Questions
Media employed	PowerPoint Presentation
Reading list	1. Aldrich, T.E. Cooke, C. (1993) Environmental Epidemiology and Risk Assesment. Van Nonstrand Reinhoid. New York 2. Stenland K, Savits D (1997). Topics in Environmental Epidemiology. Oxford. New York 3. APHA (2001). Geographical Information system in Health Care, APHA 4. WHO, (1999). Biomarkers and Risk Assesment: Concept and Principles. 5. WHO, (2001). Helath Risk Assesment and Risk Management. 6. WHO, (2000). Principles for the Assesment of Risks to Human Health 7. Greenland. (2003) Critical appraisal in Epidemiology Study, Oxford

Course Learning Outcome Assessment of Learning Outcomes for Course Modules

Course Module Name	**:**	Epidemiology of Environmental Health
Code	**:**	343K1322
Semester	**:**	VI
Person responsible for the module	**:**	Prof. Dr. drg. A. Arsunan Arsin, M.Kes
Lecturers	**:**	1. Dr. Wahiduddin, SKM, MKM 2. dr. H. Hasanuddin Ishak, P.Hd 3. Anwar Mallongi, SKM., M.Sc.,Ph.D 4. Ryza Jazid, SKM., MKM

Intended Learning Outcomes	Course Module Objectives	List of Assessments	List of Rubrics
Knowledge (K1): Mampu menjelaskan konsep dasar ilmu kesehatan masyarakat dalam peningkatan status kesehatan masyarakat	**CLO1:** Mahasiswa mampu menjelaskan tentang konsep epidemiologi lingkungan	Assignment: ● Essay Written Test ● Quiz ● Mid Test	● Rubric penilaian tatap muka ● Rubric partisipasi kelas
	CLO2: Mahasiswa mampu menjelaskan aplikasi studi epidemiologi di bidang kesehatan lingkungan	Assignment: ● Essay Written Test ● Quiz ● Mid Test	● Rubric penilaian tatap muka ● Rubric partisipasi kelas
Competence (C1): Mampu menerapkan pemikiran logis, kritis, sistematis, dan inovatif dalam konteks pengembangan kesehatan masyarakat;	**CLO3:** Mahasiswa mampu menjelaskan dasar risk assesment, risk communication dan penggunaan biomarker	Assignment: ● Essay Written Test ● Quiz ● Mid Test	● Rubric penilaian tatap muka ● Rubric partisipasi kelas

	)4: Mahasiswa mampu menganalisis dampak masalah lingkungan	Assignment: ● Essay Written Test ● Quiz ● Final Test	● Rubric penilaian tatap muka ● Rubric partisipasi kelas
Skill (S1): Mampu menerapkan prinsip epidemiologi dan biostatistik dalam analisis situasi bidang kesehatan masyarakat	**)5:** Mahasiswa mampu melakukan critical appraisal terhadap study epidemiology yang terpublikasi	Assignment: ● Essay ● Paper and Presentation Written Test ● Quiz ● Final Test	● Rubric penilaian tatap muka ● Rubric partisipasi kelas ● Rubric Makalah ● Rubrik Presentasi ● Rubrik Penilaian Diskusi

Example of Written Test Exam

1. Jelaskan yang dimaksud dengan Studi Ekologi serta sebutkan manfaat dari studi ekologi! **(CLO1)**
2. Sebutkan kelebihan dan kekurangan dari Studi Ekologi! **(CLO1)**
3. Sebutkan alasan pentingnya dilakukan penelitian Epidemiologi Lingkungan **(CLO2)**
4. Buatlah 1 (satu) contoh kasus risiko kesehatan lingkungan dan jelaskan strategi risk communication terhdap risiko kesehatan lingkungan tersebut **(CLO3)**
5. Jelaskan secara singkat 4 Tahap Penilaian Risiko Lingkungan **(CLO3)**
6. Sebutkan 4 Langkah Prosedur AMDAL **(CLO4)**
7. Jelaskan Penilaian Dokumen KA dan ANDAL **(CLO4)**
8. Jelaskan Penilaian Dokumen RKL dan RPL **(CLO4)**