RENCANA PROGRAM DAN KEGIATAN PEMBELAJARAN SEMESTER (RPKPS)

Manajemen Pengelolaan Lingkungan 2

(Semester 3/2 SKS/KUI-7262)

Program Studi S2 Ilmu Kesehatan Masyarakat

Oleh:

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Universitas Gadjah Mada
Fakultas Kedokteran, Kesehatan Masyarakat dan Keperawatan
2019

Universitas Gadjah Mada	
	Universitas Gadjah Mada Fakultas Fakultas Kedokteran, Kesehatan Masyarakat, dan Keperawatan Departemen/Program Studi S2 Ilmu Kesehatan Masyarakat

RENCANA PROGRAM DAN KEGIATAN PEMBELAJARAN SEMESTER (RPKPS)

Kode Mata Kuliah	Nama Mata Kuliah	Bobot (sks)	Semester	Status Mata Kuliah	Mata Kuliah Prasyarat
KUI-7262	Environmental Management 2	2	3	*Core*	-

Capaian Pembelajaran Lulusan (CPL) yang dibebankan pada MK	*ELO 2. Able to analyze public health programs from 5 core public health principles* *ELO 4. Able to create effective, effiient and sustainable public health programs and health service deliveries* *ELO 6. Able to apply theories and principles in public health field concentrations or tracts*

Capaian Pembelajaran Mata Kuliah (CPMK)	**CPMK1**	Able to summarize principles of environmental management
	CPMK2	Able to evaluate environmental management programs
	CPMK3	Able to analyze environmental health risks in multiple settings

Pemetaan CPL dengan CPMK				
		CPMK 1	**CPMK 2**	**CPMK 3**
	ELO 2	X		X
	ELO 4		X	X
	ELO 6	x	x	X

Deskripsi Singkat Mata Kuliah	The Environmental Management course is one of the compulsory subjects in the Master of Environmental Health Study Program. The Environmental Management course must be taken by students in the third semester, which is a follow-up course of courses in the previous semester. The material in the Environmental Management course includes material about the physical and social environment. Environmental management is a very important science considering the importance of environmental aspects in human life. Environmental components in the Environmental Management course include the water, air, land / land, biotic, and socio-cultural environments. Environmental management needs to be done so that environmental sustainability is maintained. Karyasiswa is expected to be able to understand the concept of the environment and its management after taking the Environmental Management course. Students are also expected to be able to analyze and evaluate environmental management using approaches based on law and legislation related to environmental management. The ability to analyze and evaluate this environment is expected to be applied to a case study in real life.

Bahan Kajian/Materi Pembelajaran	1. The scope of environmental health 2. Air pollution (1) 3. Air pollution (2) 4. Food contamination (1) 5. Food contamination (2) 6. Policies and Technology for Household Waste Management 7. Management of Solid Waste (Medical Waste) from Health Services 8. Liquid Waste Management of Hospital / Health Service Institution 9. Pharmaceutical Waste Processing Technology 10. Livestock / Animal Slaughterhouse / Zoo Waste Management Technology 11. Research in the Field of Environmental Health 12. Types of research related to pollution and waste treatment

Metode Penilaian dan Kaitan dengan CPMK					
	Komponen Penilaian	**Persentase**	**CPMK 1**	**CPMK 2**	**CPMK 3**
	Exam	50%	X	x	X
	Assignment	20%		X	X
	Discussion	10%	x	x	x
	Attendance	20%			

Daftar Bahan dan Referensi	1. Pepper, I., Gerba, C., Brusseau, M. Environmental and Pollution Science. Elsevier; 2006 2. Keputusan Kepala Bapedal No. 107 Tahun 1997, Tentang : Perhitungan Dan Pelaporan Serta Informasi Indeks Standar Pencemar Udara 3. Vallero, D. Fundamentals of Air Pollution Fifth Edition. Elsevier; 2014 4. Wilson, C. Microbial Food Contamination. Taylor & Francis; 2007 5. Chandra, R. Environmental Waste Management. Taylor & Francis Group; 2016 6. Hatfield, J., Stewart, B. Animal Waste Utilization – Effective Use of Manure as a Soil Resource. CRC; 2002

Nama Dosen Pengampu	Dr. Ir. Sarto Prof. Dr. Lucky Herawati, SKM., M.Sc

(*Team Teaching*)	Dr. Iswanto, S.Pd., MPH Drs. Wiranto, M.KEs			
Otorisasi	Tanggal Penyusunan	Koordinator Mata Kuliah	Koordinator Bidang Keahlian (Jika Ada)	Ketua Program Studi
		Tanda Tangan *Nama Terang*	*Tanda Tangan* *Nama Terang*	*Tanda Tangan* *Nama Terang*

Rencana Kegiatan Pembelajaran Mingguan (RKPM)

Minggu Ke-	Sub-CPMK (Kemampuan Akhir yang Direncanakan)	Metode Penilaian			Bahan Kajian (Materi Pembelajaran)	Metode Pembelajaran	Beban Waktu Pembelajaran	Pengalaman Belajar Mahasiswa	Media Pembelajaran	Pustaka dan Sumber Belajar Eksternal
		Indikator	Komponen	Bobot (%)						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1	Explaining the Scope of Environmental Health, Describe the Environmental Health System, and Distinguish types of environmental pollution	Answer exam questions correctly Active in discussion	Exam Discussion	4% 0.5%	The scope of environmental health	Face to face Discussion	2 x 50	Classroom discussion	Powerpoint presentation	Pepper, I., Gerba, C., Brusseau, M. Environmental and Pollution Science. Elsevier; 2006
2	Analyze the types of pollutants and their impact on public health Determining the Air Pollution Standard (ISPU) index	Answer exam questions correctly Active in discussion	Exam Discussion	4% 0.5%	Air pollution (1)	Face to face Discussion	2 x 50	Classroom discussion	Powerpoint presentation	Keputusan Kepala Bapedal No. 107 Tahun 1997, Tentang : Perhitungan Dan Pelaporan Serta Informasi Indeks Standar

											Pencemar Udara Vallero, D. Fundamentals of Air Pollution Fifth Edition. Elsevier; 2014
3	Analyze the impact of air pollution toward health and the environment	Answer exam questions correctly Active in discussion	Exam Discussion	4% 0.5%	Air pollution (2)	Face to face Discussion	2 x 50	Classroom discussion	Powerpoint presentation	Keputusan Kepala Bapedal No. 107 Tahun 1997, Tentang : Perhitungan Dan Pelaporan Serta Informasi Indeks Standar Pencemar Udara Vallero, D. Fundamentals of Air Pollution Fifth

										Edition. Elsevier; 2014
4	Analyze the impact of food borne diseases toward health and the environment	Answer exam questions correctly	Exam	4%	Food contamination (1)	Face to face Discussion	2 x 50	Classroom discussion	Powerpoint presentation	PP No. 28 Tahun 2004
		Active in discussion	Discussion	0.5%						Wilson, C. Microbial Food Contamination. Taylor & Francis; 2007
5	Evaluate food sanitation programs	Answer exam questions correctly	Exam	4%	Food contamination (2)	Face to face Discussion	2 x 50	Classroom discussion	Powerpoint presentation	PP No. 28 Tahun 2004
		Active in discussion	Discussion	0.5%						Wilson, C. Microbial Food Contamination. Taylor & Francis; 2007
6	Evaluate policies and technology for household waste management	Answer exam questions correctly	Exam	4%	Policies and Technology for Household Waste Management	Face to face Discussion	2 x 50	Classroom discussion	Powerpoint presentation	UU No. 18 Tahun 2008 tentang Pengelolaan Sampah
		Active in discussio	Discussion	0.5%						PP No. 81

		n								Tahun 2012 tentang Pengelolaan Sampah Rumah Tangga dan Sampah Sejenis Sampah Rumah Tangga
7	Evaluate management of solid medical waste from health services	Answer exam questions correctly Active in discussion	Exam Discussion	4% 0.5%	Management of Solid Waste (Medical Waste) from Health Services	Face to face Discussion	2 x 50	Classroom discussion	Powerpoint presentation	KMK No. 1204/Menk es/SK/IV/20 04 Chandra, R. Environmen tal Waste Managemen t. Taylor & Francis Group; 2016
8	Evaluate liquid waste management of hospitals and other health facilities	Answer exam questions correctly Active in discussion	Exam Discussion	4% 0.5%	Liquid Waste Management of Hospital / Health Service Institutions	Face to face Discussion	2 x 50	Classroom discussion	Powerpoint presentation	Chandra, R. Environmen tal Waste Managemen t. Taylor & Francis Group; 2016

9	Describe pharmaceutical waste processing technology	Answer exam questions correctly	Exam	4%	Pharmaceutical Waste Processing Technology	Face to face Discussion	2 x 50	Classroom discussion	Powerpoint presentation	Chandra, R. Environmental Waste Management. Taylor & Francis Group; 2016
		Active in discussion	Discussion	0.5%						
10	Describe Livestock/animal slaughterhouse. /zero waste management policy and technology	Answer exam questions correctly	Exam	4%	Livestock / Animal Slaughterhouse / Zoo Waste Management Technology	Face to face Discussion	2 x 50	Classroom discussion	Powerpoint presentation	Hatfield, J., Stewart, B. Animal Waste Utilization – Effective Use of Manure as a Soil Resource. CRC; 2002
		Active in discussion	Discussion	0.5%						
11	Evaluate research in the field of environmental health	Answer exam questions correctly	Exam	4%	Research in the Field of Environmental Health	Face to face Discussion	2 x 50	Classroom discussion	Powerpoint presentation	Research, and Medicine Roundtable on Environmental Health Sciences. *Environmental Health Sciences Decision Making:*
		Active in discussion	Discussion	0.5%						

										Risk Management, Evidence, and Ethics: Workshop Summary. National Academies Press; 2009
12	Evaluate research in the field of environmental health related to pollution and waste management	Answer exam questions correctly Active in discussion	Exam Discussion	4% 0.5%	Types of research related to pollution and waste treatment	Face to face Discussion	2 x 50	Classroom discussion	Powerpoint presentation	Research, and Medicine Roundtable on Environmental Health Sciences. *Environmental Health Sciences Decision Making: Risk Management, Evidence, and Ethics: Workshop Summary*. National Academies

											Press; 2009
13	Students are expected to be able to analyze and evaluate environmental management program	Submit written assignment and presentation	Written assignment and presentation	20%	Environmental Management Evaluation	Group work Presentation Discussion	2 x 50 minutes	Presentation Discussion	Paper, powerpoint presentation	Pepper, I., Gerba, C., Brusseau, M. Environmental and Pollution Science. Elsevier; 2006

Keterangan :

Penilaian pembelajaran (3), (4), (5) dapat berupa:

  Metode:

   Tatap muka: observasi, tes tertulis, kuis, dsb

   Daring: tugas *essay, feedback*, penilaian teman sejawat, penyusunan proposal, penyusunan
      paper, dsb

  Instrumen

   Tatap muka: soal *essay*, dsb

   Daring: pilihan ganda, dsb

  Bobot nilai

Bahan kajian (6) dapat berupa:

  Sumber belajar yang diberikan oleh pengampu MK, jelaskan substansinya

  Sumber belajar yang diperoleh mahasiswa secara online dalam bentuk teks, *slides, audio,*
   video dsb, jelaskan substansinya.

Metode pembelajaran (7) dapat berupa:

  Metode tatap muka: pemaparan, *collaborative learning, problem based learning*, dsb

  Metode daring: *self learning*, tugas terstruktuir, *essay writing*, dsb

Beban waktu pembelajaran (8):

  Tatap muka 2 x 50 menit, atau

  Daring 2 x 60 menit belajar mandiri, 2 x 60 menit tugas terstruktur

Pengalaman belajar/aktivitas mahasiswa (9) dapat berupa:

  Tatap muka: belajar berkelompok, berdiskusi, berdebat secara konstruktif, pemecahan
   masalah, dsb

  Daring: belajar mandiri, berlatih mengkaji literature, berlatih menulis *essay*, dsb

Media pembelajaran (10) dapat berupa:

  Tatap muka: computer, in focus, alat tulis, alat peraga, dsb

  Daring: computer, *gadget*, akses internet, dsb