Title of Module: **Research Methods**

Coordinator(s) / organiser(s):

Dr. Soenarnatalina Melaniani, Ir., M.Kes. (Module Leader)

Teaching Faculty				
Title	Name	Qualifications*	Hours contributed	
Dr.	Soenarnatalina Melaniani	Ir., M.Kes., Dr.	28.8	
Dr.	Arief Wibowo	dr., M.S., Dr.	25.6	
Dr.	Hari Basuki Notobroto	dr., M.Kes., Dr.	19.2	
Dr.	Rachmah Indawati	S.KM., M.KM., Dr.	19.2	
Dr.	Mahmudah	Ir., M.Kes., Dr.	19.2	
Dr.	Diah Indriani	S.Si., M.Si., Dr.	22.4	
Dr.	Shrimarti Rukmini Devy	Dra., M.Kes., Dr.	12.8	
Dr.	Oedojo Soedirham	dr., M.PH, M.A., Ph.D.	12.8	

* PhD, Master, 20 years service(in practice) etc. Only provide details for faculty responsible for 25% or more of course load.

Core /elective or optional:	Core:				
	Quantitative	and	Qualitative	Research	Methodology
	(PNM405)				
	Application of Research Methodology (Integrating Experience				
	see section 7)				
	Elective:				
	Health Resear	ch Des	ign (PNM406)		
	Sampling Tech	inique	(PNM407)		
	Critical Apprai	sal in I	Biostatistics a	nd Demogra	phy (MAS409)

Number of SKS credits allocated	Student's workload	Contact work	Self-study work
	in hours	hours*	hours
12 SKS	544	160	384

* includes lectures, seminars, face-to-face, assessments

Learning competences / objectives

On successful completion of this module students will be able to:

- 1. Explain the design of observational research
- 2. Explain the principle of sampling technique
- 3. Explain the principle of sampling technique and estimate the required sample size
- 4. Explain the principle of experimental research

Syllabus content. Brief overview of syllabus using bullet points.

- Observational studies design with cross-sectional, case control and cohort techniques
- Experimental research design with quasi and true experimental design
- Sampling techniques for observational research including random (Simple Random Sampling, Systematic Random Sampling, Stratified Random Sampling, Cluster Random Sampling) and non-random (Purposive, Accidental, Snowball) techniques
- Estimating the sample size of several observational sampling techniques
- Estimating the replication size for experimental research
- Sampling technique for Rapid Survey research

Module level timetable - indicate the timing of the teaching sessions for the upcoming teaching year:

Quantitative and Qualitative Research Methodology: 5th semester

Health Research Design: 6th semester

Sampling Technique: 7th semester

Critical Appraisal in Biostatistics and Demography: 7th semester

Pedagogic/teaching methodology:

Scheduled learning includes lectures which delivering the content to the students with presenting technical assistance and ask student to make discussions about the actual real life cases which are given by lecturer.

During lecture in the classroom, the lecturer gives the didactic question to the students. It can make a chance for the student to ask the topic related questions immediately then they can get answers from the lecturer and the peer group.

Students in the class are divided into small groups. Each group will disscuss about research methods and sampling techniques to help student to choose the most appropriate methods

Assessments used:

There are three types of assessment:

- 1. Middle examination (40%): Multiple choice questions 40% and Essays 60%
- 2. Final examination (40%): Multiple choice questions 40% and Essays 60%
- 3. Structured assignment (20%)

Each examination takes 100 minutes including essays and case studies. The examination assesses the students' knowledge and understanding and all learning outcomes of the module. Structured assignment is given by lecturer in case studies method. The result of the case report is written in a paper.

Critical Appraisal in Biostatistics and Demography:

There are a type of assessment:

1. Structured assignment (100%)

The students are divided into small grups and discuss a case study which is given by lecturer. The results of the discussions are written in a paper.

Weeks	required	and	place	Number of weeks	Week number
In academ	ic calendar:				
				16	01-16

Quantitative and Qualitative Research		
Methodology		
Weeks beginning, 08/2019-11/2019		
	16	01-16
Health Research Design		
Weeks beginning, 02/2020-05/2020		
	16	01-16
Sampling Technique		
Weeks beginning, 08/2020-11/2020		
	16	01-16
Critical Appraisal in Biostatistics and		
Demography		
Weeks beginning, 08/2020-11/2020		