Title of Module:  
**Environmental Health Epidemiology**

Coordinator(s) / organiser(s):  
Prof. Dr. Ririh Yudhastuti, drh., M.Sc. (Module Leader)

<table>
<thead>
<tr>
<th>Teaching Faculty</th>
<th>Qualifications*</th>
<th>Hours contributed</th>
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<tbody>
<tr>
<td><strong>Title</strong></td>
<td><strong>Name</strong></td>
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<tr>
<td>Professor</td>
<td>Ririh Yudhastuti</td>
<td>drh., M.Sc., Dr.</td>
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<tr>
<td>dr.</td>
<td>Muhammad Farid Dimyati Lusno</td>
<td>dr., M.KL.</td>
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<tr>
<td>dr.</td>
<td>Kusuma Scorpio Lestari</td>
<td>dr., M.KM.</td>
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<tr>
<td>Ms.</td>
<td>Khuliyah Candraning Diyanah</td>
<td>S.KM., M.KL.</td>
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*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:  
Elective:  
Animal Borne Disease Control (LKM406)  
Vector and Rodent Control (LKM309)

<table>
<thead>
<tr>
<th>Number of SKS credits allocated</th>
<th>Student's workload in hours</th>
<th>Contact work hours*</th>
<th>Self-study work hours</th>
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<tbody>
<tr>
<td>4 SKS</td>
<td>181.33</td>
<td>53.33</td>
<td>128</td>
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*includes lectures, seminars, face-to-face, assessments

Learning competences / objectives  
On successful completion of this module students will be able to:  
Animal Borne Disease Control:  
1. Explain the mechanism of animal borne disease transmission  
2. Plan the control of animal borne disease transmission  
Vector and Rodent Control:  
1. Define kinds of vectors and rodents transmitted diseases to be controlled  
2. Plan disease control due to vectors and rodents in a specific region

Syllabus content. Brief overview of syllabus using bullet points.  
Animal Borne Disease Control:  
- The scope and definition of animal borne disease  
- Causes of animal borne disease and its factors  
- Epidemiology and distribution at national and regional level  
- Causes of animal borne disease due to viruses, bacteria, clamidia, rickets, and parasites  
- The mechanism of disease transmission from animals in the community  
- Control of animal borne diseases in culturally based societies in residential environments
• The control of animal borne diseases in the community based on national regulations (quarantine)
• Animal borne diseases control due to climate, seasons, geography and topography
• Animal disease control planning

Vector and Rodent Control:
• The scope of vector and rodent control
• Bionomic vectors and rodents
• Diseases due to vectors and rodents
• Epidemiology and disease distribution due to vectors and rodents
• Measurement indicators of vectors and rodents disease
• Insecticides and rodenticides
• Disease control due to vector and rodent in community based on national regulations
• Disease control based on climate, seasons, geography and topography
• Planning of disease control due to vector and rodent in a region

Module level timetable - indicate the timing of the teaching sessions from the upcoming teaching year:
Animal Borne Disease Control: 6th semester
Vector and Rodent Control: 6th semester

Pedagogic/teaching methodology:
Scheduled learning includes lectures and discussions about the actual real life cases which are given by lecturer. During lecture in the classroom, the lecturer demonstrates the specific skill and gives the didactic question to the students.
Lecturer presents the teaching materials with LCD and whiteboard. In one class, all the students are divided into small groups. Each group has to discuss the topic determined by the lecturer and presents the results to the class. The results of the discussions are written in a paper.
Independent learning includes hours engaged with essential reading, assignment preparation and completion and self-directed study. Students are provided with access to essential and supplementary learning via email or e-learning (AULA) and whiteboard.

Assessments used:
There are three types of examination:
1. Middle examination (40%) 
2. Final examination (40%) 
3. Structured assignment (20%)
Each examination takes 100 minutes includes case studies, and essays. The examination assesses the students' knowledge and understanding and all learning outcomes of the module. Structured assignment is assessed by a written group report about specific case studies.

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<tr>
<th>Weeks required in academic calendar:</th>
<th>Number of weeks</th>
<th>Week number</th>
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<tr>
<td>Animal Borne Disease Control</td>
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<td>17-32</td>
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<tr>
<td>Weeks beginning 02/2020-05/2020</td>
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<tr>
<td>Vector and Rodent Control</td>
<td>16</td>
<td>17-32</td>
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<tr>
<td>Weeks beginning 02/2020-05/2020</td>
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