### A. DETAILS OF COURSE

1. **Course Name**: Epidemiology of Vaccine Preventable Disease  
2. **Course Code**: KME301  
3. **Credits (SKS)**: 3 (three) SKS  
4. **Semester / Term**: VII (seventh)  
5. **Study Program**: Bachelor of Public Health  
6. **Graduate Learning Outcomes**: The general competence that students will achieve after completing this course are that students will be able to understand the epidemiology of preventable diseases with immunization and types of vaccinations, follow-up events after immunization and contraindications to vaccination. Students are also expected to be able to conduct analysis and evaluation of programs to control diseases that can be prevented by immunization.  
7. **Course Learning Outcomes**: Applying Public Health Sciences, including social and behavioral sciences, chronic diseases, infections, and accidents.  
8. **Course Description**: Materials are delivered with face-to-face meetings and practices, discussing the existence of epidemiological principles in immunization-preventable diseases, such as the concept of immunology in immunization, national immunization program, immunization schedule, post-immunization event, and epidemiology of various immunization-preventable diseases such as tuberculosis, diphtheria, pertussis, tetanus, measles, poliomyelitis, hepatitis-B, mumps, rubella, and varicella. The learning activities are conducted in classrooms, laboratories, and on the ground. The dissemination of the material can be in the form of theory and practice. The academic process is carried out through lectures, discussions, field observations, practices, and seminars.  
9. **Course Prerequisites (if any)**: None  
10. **Instructor**: Kurnia Dwi Artanti, dr., M.Sc  
11. **Teaching Assistants**:  
   - Kurnia Dwi Artanti, dr., M.Sc  
   - Prof. Dr. Chatarina U.W., MS., MPH  
   - Arief Hargono, drg., M.Kes  
   - Dr. M. Atoillah, dr., M.Kes

### B. TEACHING PROGRAM
### SEMESTER LEARNING PLAN

**Prepared by** (Person in Charge): Kurnia Dwi Artanti, dr., M.Sc  
**Examined by** (Head of Bachelor Program / Head of Department): Dr. Diah Indriani, S.Si., M.Si  
**Approved by** Vice Dean: Dr. Santi Martini, dr., M.Kes  

**Document Registration Number**: 01/S1Kesmas/RPS/2019

**Revision Date**: January 1st, 2019  
**Faculty of Public Health**: Valid on Semester (odd/even) / Academic Year: Odd Semester 2019/2020

- Evaluation of this document is needed every year

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<thead>
<tr>
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</thead>
</table>
| 1    | Students are able to explain the Introduction to the Concept of Immunology      | 1. Immunization Primary Prevention Efforts  
2. The concept of immunization immunology | 1. Lectures  
2. Discussions | LCD, Whiteboard, and Laptop | 2x50 minutes | | 1. Discipline  
2. Communication | | 1,2 |
| 2    | Students are able to explain mandatory vaccination for the Immunization Program in Indonesia: Epidemiology of Tuberculosis | 1. Epidemiology of Tuberculosis  
2. BCG vaccine  
3. Adverse Events Following Immunization in BCG vaccine  
4. Counter-indications of BCG vaccine | 1. Lectures  
2. Discussions | LCD and Laptop | 2x50 minutes | | 1. Discipline  
2. Communication | | 1,2 |
| 3    | Students are able to describe the epidemiology of Diphtheria, Tetanus, Pertussis | 1. Epidemiology of Diphtheria, Tetanus, Pertussis  
2. DPT vaccine | 1. Lectures  
2. Discussionss  
3. Practical exercise  
4. Presentations | LCD and Laptop | 2x50 minutes | | 1. Discipline  
2. Communication | | 1,2 |
### Skills expected at the end of each learning phase

**Week 1**

- **Skills**
  - Students are able to explain the epidemiology of Poliomyelitis

**Study Materials**

- 1. Lectures
- 2. Discussions
- 3. Presentations

**Teaching Methods**

- LCD and Laptop

**Meeting Time**

- 2x50 minutes

**Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)**

- Mark / Grade / Percentage (%)

**Reference Number**

- Ref. (nomor) 1,2

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<tbody>
<tr>
<td>1</td>
<td>Students are able to explain the epidemiology of measles</td>
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<td>1. Communication 2. Confidence 4. Teamwork</td>
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<tr>
<td>6</td>
<td>Students are able to explain the epidemiology of measles</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>1. Communication 2. Confidence 4. Teamwork</td>
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**SEMMESTER LEARNING PLAN**

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</thead>
<tbody>
<tr>
<td>7</td>
<td>Students are able to describe several agents in diseases that are in accordance with the topic of epidemiology of immunization-preventable diseases</td>
<td>Practice: Identification of the types of bacteria associated with immunization-preventable diseases</td>
<td>Practicum</td>
<td>Microscope</td>
<td>2x50 minutes</td>
<td>1. Discipline 2. Communication 3. Confidence 4. Teamwork</td>
<td>1,2</td>
<td></td>
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</tbody>
</table>

**MID-SEMESTER EXAMINATION**

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Students are able to explain the National Immunization Program</td>
<td>1. National Immunization Program 2. Immunization Schedule 3. Cold chain</td>
<td>1. Lectures 2. Discussion</td>
<td>LCD and Laptop</td>
<td>2x50 minutes</td>
<td>1. Discipline 2. Communication</td>
<td>1,2</td>
<td></td>
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</tr>
<tr>
<td>9</td>
<td>Students are able to explain the Immunization Program Evaluation</td>
<td>Immunization Program Evaluation: a. RCA b. DQS c. EVM d. Supportive Supervision</td>
<td>1. Lectures 2. Discussion</td>
<td>LCD and Laptop</td>
<td>2x50 minutes</td>
<td>1. Discipline 2. Communication</td>
<td>1,2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### SEMESTER LEARNING PLAN

**Prepared by:** (Person in Charge)  
**Examined by:** (Head of Bachelor Program / Head of Department)  
**Approved by:** Vice Dean I  
**Faculty of Public Health**

<table>
<thead>
<tr>
<th>Revision Date</th>
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<tbody>
<tr>
<td><strong>Kurnia Dwi Artanti, dr., M.Sc</strong></td>
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</tr>
</tbody>
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**Faculty of Public Health**  
**Valid on Semester (odd/even) / Academic Year**  
**Odd Semester 2019/2020**

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#### Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)

<table>
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<tr>
<th>Week</th>
<th>Study Materials</th>
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</table>
| 10   | Students are able to explain compulsory vaccination for traveling:  
- Epidemiology of yellow fever  
- Epidemiology of meningococci  
1. Epidemiology of yellow fever and meningococci  
2. Yellow fever and meningococci vaccines  
3. Adverse Events After Immunization of yellow fever and meningococci vaccines  
4. Counter-indications of yellow fever and meningococci vaccines |

#### Study Materials

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#### Teaching Methods

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#### Additional Materials for Learning

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#### Meeting Time

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#### Course Objectives

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#### Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)

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#### Mark / Grade / Percentage (%)

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1. Discipline  
2. Communication  
3. Confidence  
4. Teamwork  

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### Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P)

- Students are able to explain recommended vaccinations:
  - Epidemiology of Haemophillus influenza type b
  - Epidemiology of Pneumococcus
  - Epidemiology of Influenza

### Study Materials

1. Epidemiology of Haemophillus influenza type B, Pneumococcus, and Influenza
2. Vaccines of Haemophillus influenza type B, Pneumococcus, and Influenza
3. Adverse Events After Immunization of Haemophillus influenza type B,

### Teaching Methods

1. Lectures
2. Discussions
3. Presentations

### Course Objectives

<table>
<thead>
<tr>
<th>Week</th>
<th>Meeting Time</th>
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</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>2x50 minutes</td>
<td>1. Discipline 2. Communication 3. Confidence 4. Teamwork</td>
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### Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)

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<tr>
<td>1,2</td>
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### Additional Materials for Learning

- LCD and Laptop

### Reference Number

- Reference Number (nomor)
### Semester Learning Plan

#### Faculty of Public Health

**Validity:** Odd Semester 2019/2020

**SLP (Person in Charge):** Kurnia Dwi Artanti, dr., M.Sc

**Examined by:** Dr. Diah Indriani, S.Si., M.Si

**Approved by:** Dr. Santi Martini, dr., M.Kes

**Registration Number:** 01/S1Kesmas/RPS/2019

### Skills Expected at the End of Each Learning Phase

**Week** | **Skills** | **Study Materials** | **Teaching Methods** | **Meeting Time** | **Course Objectives** | **Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard dan soft skills)** | **Mark / Grade / Percentage (%)** | **Reference Number (nomor)** |
--- | --- | --- | --- | --- | --- | --- | --- | --- |
1 | | | | | | | |
2 | | | | | | | |
3 | | Pneumococcus, and Influenza vaccinations | 1. Lectures 2. Discussions 3. Presentations | LCD and Laptop | 2x50 minutes | | |
4 | | Counter-indications of type B Haemophyllus influenza, Pneumococcus, and Influenza vaccines | | | | | |
5 | | | | | | | |
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8 | | | | | | | |
9 | | | | | | | |
10 | | | | | | | |
11 | | | | | | | |
12 | Students are able to explain the epidemiology of Rotavirus, Typhoid | 1. Epidemiology of Rotavirus, Typhoid 2. Vaccines of Rotavirus, typhoid 3. Adverse Events After | | | | | |

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### Faculty of Public Health

#### Valid on Semester (odd/even) / Academic Year
Odd Semester 2019/2020

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<tbody>
<tr>
<td>1</td>
<td>Immunization of vaccines for Rotavirus, Typhoid</td>
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<td>4. Counter-indications of Rotavirus, Typhoid vaccines</td>
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<tr>
<td>13</td>
<td>Students are able to explain the Epidemiology of MMR (Measles, Mumps, and Rubella) and Epidemiology of Hepatitis A</td>
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<tr>
<td></td>
<td>1. Epidemiology of MMR and Hepatitis A</td>
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<td></td>
<td>2. Vaccines of MMR and Hepatitis A</td>
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<td>3. Adverse Events After Immunization of vaccines for MMR and Hepatitis A</td>
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<td>4. Counter-indications of</td>
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### Faculty of Public Health

**Validation:** Odd Semester 2019/2020

**Course Code:** SLP

**Person in Charge:** Kurnia Dwi Artanti, dr., M.Sc

**Head of Bachelor Program/Head of Department:** Dr. Diah Indriani, S.Si., M.Si

**Vice Dean:** Dr. Santi Martini, dr., M.Kes

**Revision Date:** January 1st, 2019

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<tbody>
<tr>
<td>1</td>
<td>Vaccines for MMR and Hepatitis A</td>
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<tr>
<td>14</td>
<td>Students are able to explain the Epidemiology of Varicella and Epidemiology of Human Papilloma Virus (HPV)</td>
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<tr>
<td>15</td>
<td>Students are able to present the results of Seminar on field observations</td>
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### Semester Learning Plan

**Faculty of Public Health**

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<tr>
<td>1</td>
<td>field observations on Immunization Implementation</td>
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<td>2. Communication</td>
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<td>3. Confidence</td>
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<td>4</td>
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<td>4. Teamwork</td>
<td></td>
<td></td>
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**C. REQUIRED TEXTS / REFERENCES / ESSENTIAL READINGS**

**Required Readings:**
