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|--|-------------------------------|--------------------------------|------------------------------|---|-------------------------------|-------------------------------------|
|  Universitas Airlangga | SEMESTER LEARNING PLAN | | Prepared by | Examined by | Approved by | Document Registration Number |
| | SLP | | (Person in Charge) | (Head of Bachelor Program / Head of Department) | Vice Dean I | 01/S1Kesmas/RPS/2019 |
| | Revision - Date | January 1 st , 2019 | Hario Megatsari, SKM., M.Kes | Dr. Diah Indriani, S.Si., M.Si | Dr. Santi Martini, dr., M.Kes | |
| Valid on Semester (odd/even) / Academic Year | Odd Semester 2019/2020 | (sign) | (sign) | (sign) | | |
| Faculty of Public Health | | | | | | |

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A. DETAILS OF COURSE


| | |
|---|--|
| 1. Course Name | Occupational Disease |
| 2. Course Code | KMK311 |
| 3. Credits (SKS) | 2 (two) SKS |
| 4. Semester / Term | VII (seventh) |
| 5. Study Program | Bachelor of Public Health |
| 6. Student Learning Achievement | At the end of the course, students will be able to comprehend the concept of Occupational Disease |
| 7. Course Learning Achievement | <ol style="list-style-type: none"> 1. Students understand the history and definition of occupational disease 2. Students understand the causes of occupational diseases include physical factors 3. Students understand about reporting occupational diseases |
| 8. Course Description | This course discusses 1) History and understanding of occupational diseases, 2) How to diagnose, 3) Causes of occupational diseases include physical factors (noise, vibration, light, air pressure, radiation), chemical factors (dust, vapor, fume) , micro-organism factors, work-related allergies, psychology, 4) Diagnosis of work-related defects, and 5) Reporting of occupational disease |
| 9. Course Prerequisites (if any) | None |
| 10. Instructor | Meirina Ernawati, drh.,M.Kes |
| 11. Teaching Assistants | <ol style="list-style-type: none"> 1. Endang Dwiyantri, drh.,M.Kes 2. Dani Nasirul haqi, SKM.,M.KKK |

B. TEACHING PROGRAM

| | | | | | | |
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| Week | Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P) | Study Materials | Teaching Methods | Additional Materials for Learning | Meeting Time | Course Objectives | Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard and soft skills) | Mark / Grade / Percentage (%) | Reference Number Ref. (number) |
|-------------|---|---|---------------------------------------|--|---------------------|--|--|--------------------------------------|---------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | Students are able to understand the scope and history of the development of occupational diseases (PAK), their diagnosis and prevention | General description of occupational diseases. 1. Lecture contract 2. Introduction to occupational diseases 3. History of occupational diseases in the world and in Indonesia 4. How to diagnose occupational diseases 5. Ways to prevent occupational diseases | Lectures Discussions Simulation | LCD Teaching material Hand out | 2x50 minutes | 1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses | Complex thinking and collaboration | 7,14% | 1-2 |

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|------|--|--|---------------------------------------|--------------------------------------|--------------|--|---|-------------------------------|--------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 2 | Students are able to understand and explain related to PAK and PAHK | General description of PAK and PAHK. 1. Definition of PAK and PAHK 2. The scope of PAK and PAHK 3. Differences in diagnosis and determination of PAK and PAHK 4. Regulations related to PAK and PAHK | Lectures Discussions Simulation | LCD Teaching material Hand out | 2x50 minutes | 1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses | Complex thinking and collaboration | 7,14% | 1-2 |
| 3 | Students are able to understand and explain related to PAK caused by noise exposure | General description of PAK due to exposure to noise. 1. Definition of PAK due to noise exposure | Lectures Discussions Simulation | LCD Teaching material Hand out | 2x50 minutes | 1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses | Complex thinking and collaboration | 7,14% | 1-2 |

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|------|---|--|---------------------------------------|--------------------------------------|--------------|--|---|-------------------------------|--------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | 2. The scope of PAK due to noise exposure 3. The process of PAK due to noise exposure 4. Specifications of diseases that occur due to noise exposure | | | | | | | |
| 4 | Students are able to understand and explain related to PAK caused by exposure to vibration and lighting | General description of PAK due to exposure to vibration and lighting. 1. Definition of PAK due to exposure to vibration and lighting | Lectures Discussions Simulation | LCD Teaching material Hand out | 2x50 minutes | 1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses | Complex thinking and collaboration | 7,14% | 1-2 |

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| Week | Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P) | Study Materials | Teaching Methods | Additional Materials for Learning | Meeting Time | Course Objectives | Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard and soft skills) | Mark / Grade / Percentage (%) | Reference Number Ref. (number) |
|-------------|---|---|---------------------------------------|--|---------------------|---|--|--------------------------------------|---------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | 2. The scope of PAK is due to exposure to vibration and lighting 3. The process of PAK due to exposure to vibration and lighting 4. Specifications of diseases that occur due to exposure to vibration and lighting | | | | | | | |
| 5 | Students are able to understand and explain related to PAK caused by microbial exposure | General description of PAK due to microbial exposure. | Lectures Discussions Simulation | LCD Teaching material Hand out | 2x50 minutes | 1. Asking questions and discussing 2. Pay attention and discussion | Complex thinking and collaboration | 7,14% | 1-2 |

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| Week | Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P) | Study Materials | Teaching Methods | Additional Materials for Learning | Meeting Time | Course Objectives | Criteria and Indicator of Evaluation / Measurable Learning Outcome (<i>hard and soft skills</i>) | Mark / Grade / Percentage (%) | Reference Number Ref. (number) |
|------|--|--|---------------------------------------|-----------------------------------|--------------|-------------------------------------|--|-------------------------------|-----------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | 1. Definition of PAK due to microbial exposure 2. The scope of PAK due to microbial exposure 3. The process of PAK due to microbial exposure 4. Specifications of diseases that occur due to microbial exposure | | | | 3. Take notes and provide responses | | | |
| 6 | Students are able to understand and explain | General description of occupational lung disease. | Lectures Discussions Simulation | LCD Teaching material | 2x50 minutes | 1. Asking questions and discussing | Complex thinking and collaboration | 7,14% | 1-2 |

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| Week | Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P) | Study Materials | Teaching Methods | Additional Materials for Learning | Meeting Time | Course Objectives | Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard and soft skills) | Mark / Grade / Percentage (%) | Reference Number Ref. (number) |
|-------------|---|---|---------------------------------------|--|---------------------|--|--|--------------------------------------|---------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | related to Occupational Lung Disease | 1. Definition of Lung Disease Due to Work 2. The scope of Occupational Lung Disease 3. The process of occurrence of Lung Disease Due to Work 4. Specifications for Occupational Lung Disease | | Hand out | | 2. Pay attention and discussion 3. Take notes and provide responses | | | |
| 7 | Students are able to understand and explain related to Work Asthma | General description of occupational asthma. 1. Definition of Work Asthma 2. The scope of the Work Asthma | Lectures Discussions Simulation | LCD Teaching material Hand out | 2x50 minutes | 1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses | Complex thinking and collaboration | 7,14% | 1-2 |

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| Week | Skills expected at the end of each learning phase (Sub-Course Achievement) (C, A, P) | Study Materials | Teaching Methods | Additional Materials for Learning | Meeting Time | Course Objectives | Criteria and Indicator of Evaluation / Measurable Learning Outcome (hard and soft skills) | Mark / Grade / Percentage (%) | Reference Number Ref. (number) |
|-----------------------------|--|---|---------------------------------------|--------------------------------------|--------------|--|---|-------------------------------|--------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | 3. The process of the occurrence of Work Asthma 4. Working Asthma Specifications | | | | | | | |
| MID TERM EXAMINATION | | | | | | | | | |
| 8 | Students are able to understand and explain related to PAK caused by exposure to chemicals | General description of PAK due to chemical exposure. 1. Definition of PAK due to exposure to chemicals 2. The scope of PAK due to exposure to chemicals 3. The process of PAK due to | Lectures Discussions Simulation | LCD Teaching material Hand out | 2x50 minutes | 1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses | Complex thinking and collaboration | 7,14% | 1-2 |

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|------|---|--|---------------------------------------|--------------------------------------|--------------|--|---|-------------------------------|--------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | chemical exposure 4. Specifications of diseases that occur due to exposure to chemicals | | | | | | | |
| 9 | Students are able to understand and explain related to PAK caused by radiation exposure | General description of PAK due to radiation exposure. 1. Definition of PAK due to radiation exposure 2. The scope of PAK due to radiation exposure 3. The process of PAK due to | Lectures Discussions Simulation | LCD Teaching material Hand out | 2x50 minutes | 1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses | Complex thinking and collaboration | 7,14% | 1-2 |

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|------|--|---|---------------------------------------|--------------------------------------|--------------|--|---|-------------------------------|--------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | radiation exposure 4. Specifications of diseases that occur due to radiation exposure | | | | | | | |
| 10 | Students are able to understand and explain related to Decompression Disease | General description of Decompressive Disease. 1. Definition of Decompressive Disease 2. The scope of Decompressive Disease 3. The process of decompression disease | Lectures Discussions Simulation | LCD Teaching material Hand out | 2x50 minutes | 1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses | Complex thinking and collaboration | 7,14% | 1-2 |

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|------|--|---|---------------------------------------|--------------------------------------|--------------|--|---|-------------------------------|--------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | 4. Decompressive Disease Specifications | | | | | | | |
| 11 | Students are able to understand and explain related to PAK caused by psychological factors | General description of PAK due to psychological factors. 1. Understanding of PAK due to psychological factors 2. The scope of PAK is due to psychological factors 3. The process of PAK due to psychological factors | Lectures Discussions Simulation | LCD Teaching material Hand out | 2x50 minutes | 1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses | Complex thinking and collaboration | 7,14% | 1-2 |

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|------|---|--|---------------------------------------|--------------------------------------|--------------|--|---|-------------------------------|--------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | 4. Specifications of diseases that occur due to psychological factors | | | | | | | |
| 12 | Students are able to understand and explain related to the determination of disability due to PAK | General description of the determination of disability due to PAK. 1. Definition of determining disability due to PAK 2. The scope of determining disability due to PAK 3. The process of determining | Lectures Discussions Simulation | LCD Teaching material Hand out | 2x50 minutes | 1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses | Complex thinking and collaboration | 7,14% | 1-2 |

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|------|--|--|---------------------------------------|--------------------------------------|--------------|--|---|-------------------------------|--------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | disability due to PAK 4. Legislation relating to the determination of disability due to PAK | | | | | | | |
| 13. | Students are able to understand and explain related to PAK reporting management | General description of PAK reporting management. 1. Definition of PAK reporting management 2. The scope of PAK reporting management 3. PAK reporting management process | Lectures Discussions Simulation | LCD Teaching material Hand out | 2x50 minutes | 1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses | Complex thinking and collaboration | 7,14% | 1-2 |

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|------|--|--|---------------------------------------|--------------------------------------|--------------|--|---|-------------------------------|--------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | 4. Regulations related to PAK reporting management | | | | | | | |
| 14. | Students are able to understand and explain things related to PAK and its problems | General description of case studies. 1. Case studies related to PAK by noise 2. Case studies related to PAK by vibration 3. Case studies related to PAK by lighting 4. Case studies related to PAK by microbes | Lectures Discussions Simulation | LCD Teaching material Hand out | 2x50 minutes | 1. Asking questions and discussing 2. Pay attention and discussion 3. Take notes and provide responses | Complex thinking and collaboration | 7,14% | 1-2 |

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|-------------------------------|--|--|------------------|-----------------------------------|--------------|-------------------|---|-------------------------------|-----------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | 5. Case studies related to PAK by chemicals 6. Case studies related to PAK by radiation 7. Case studies related to PAK by psychology 8. Case studies related to PAK by pressure 9. Case studies related to work and pulmonary asthma due to work | | | | | | | |
| FINAL TERM EXAMINATION | | | | | | | | | |

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C. REQUIRED TEXTS / REFERENCES / ESSENTIAL READINGS

1. Pattys Industrial Hygiene & Toxicology.
2. Suma'mur PK. 2008. Higiene Perusahaan & Kesehatan Kerja. 2009