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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 1st, 2019 | Dr. Fariani Syahrul SKM., M.Kes | |
| Faculty of Public Health | Valid on Semester (odd/even) / Academic Year | Odd Semester 2019/2020 | (sign) | (sign) | (sign) | |

- Evaluation of this document is needed every year

A. DETAILS OF COURSE


| | |
|---|--|
| 1. Course Name | Data Management in Epidemiology |
| 2. Course Code | KME413 |
| 3. Credits (SKS) | 2 (two) SKS |
| 4. Semester / Term | VII (seventh) |
| 5. Study Program | Bachelor of Public Health |
| 6. Student Learning Achievement | After following this practicum, students are able to operate the EPI INFO program which includes creating epidemiological surveillance data collection instruments and epidemiological research using MAKE VIEW, editing and coding, making data entry restrictions using CHECK CODE, entering data with ENTER DATA, using STATCALC to use calculate OR and RR, use ANALYZE DATA facilities to clean data, transform data and analyze epidemiological surveillance data and epidemiological research data. |
| 7. Course Learning Achievement | <ol style="list-style-type: none"> 1. Students understand the management of epidemiological data 2. Students understand the stages of data management for surveillance activities and epidemiological research data 3. Student understand the analysis of epidemiological data for surveillance data, epidemiological research data along with association size and calculation of risk magnitude |
| 8. Course Description | This course is in the form of practicum (computer practice), which covers the management of epidemiological data, the stages of data management for surveillance activities and epidemiological research data. Analysis of epidemiological data for surveillance data, epidemiological research data along with association size and calculation of risk magnitude. |
| 9. Course Prerequisites (if any) | None |
| 10. Instructor | Dr. Fariani Syahrul SKM., M.Kes |
| 11. Teaching Assistants | |

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 (<i>hard and soft skills</i>) | Mark / Grade / Percent age (%) | Reference Number Ref. (number) |
|------|--|---|--|-----------------------------------|--------------|-------------------|--|--------------------------------|---------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | Explain the stages of epidemiological data management | Introduction to epidemiological data management 1. Definition of epidemiological data management 2. Stages of epidemiological data management | Lectures Discussions | LCD and Computer | 2x50 minutes | | Complex thinking | | Epidemiology Data Management Module |
| 2 | Explain the Epi Info application for Windows | Introduction to the Epi Info for Windows application 1. Function 2. Strengths and weaknesses | Tutorials, epi info demos and frequently asked questions | LCD and Computer | 2x50 minutes | | Listening and effective communication skills | | Epidemiology Data Management Module |
| 3 | Make a form / questionnaire using MAKE VIEW | Use MAKE VIEW for creating questionnaires / data collection forms | Tutorials, computer practice and discussion | LCD and Computer | 2x50 minutes | | Listening and effective communication skills | | Epidemiology Data Management Module |

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|------|--|--|---|-----------------------------------|--------------|-------------------|---|-------------------------------|-------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | 1. MAKE VIEW function 2. MAKE VIEW work area 3. Making fields in MAKE VIEW 4. Data coding | | | | | | | |
| 4 | Enter data using ENTER DATA | Enter data using ENTER DATA 1. ENTER DATA function 2. ENTER DATA work area 3. Enter data | Tutorials, computer practice and discussion | LCD and Computer | 2x50 minutes | | Listening and effective communication skills | | Epidemiology Data Management Module |
| 5 | Make data entry restrictions using CHECK CODE | Data entry restrictions use CHECK CODE 1. CHECK CODE function | Tutorials, computer practice and discussion | LCD and Computer | 2x50 minutes | | Listening and effective communication skills | | Epidemiology Data Management Module |

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|-------------|---|---|---|--|---------------------|--------------------------|--|--------------------------------------|---------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | 2. CHECK CODE command | | | | | | | |
| 6 | Enter data using ENTER DATA | Enter data using ENTER DATA: Data entry exercise using ENTER DATA | Tutorials, computer practice and discussion | LCD and Computer | 2x50 minutes | | Listening and effective communication skills | | Epidemiology Data Management Module |
| 7 | Perform data analysis using ANALYZE DATA | Data analysis using ANALYZE DATA 1. Cleaning epidemiological research data 2. Data transformation and training 3. Data analysis and training | Tutorials, computer practice and discussion | LCD and Computer | 2x50 minutes | | Listening and effective communication skills | | Epidemiology Data Management Module |
| 8 | Using STATCALC for Odd Ratio and Relative Risk and Chi Square test | Calculate Odd Ratio and Relative Risk without Chi Square | Tutorials, computer practice and discussion | LCD and Computer | 2x50 minutes | | Listening and effective | | Epidemiology Data |

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|-------------------------------|--|---|---|-----------------------------------|--------------|-------------------|--|--------------------------------|---------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | | Test using STATCALC 1. Calculate Odds Ratio 2. Calculating Relative Risk 3. Do a Chi Square Test | | | | | communication skills | | Management Module |
| 9 | Review | Review Explain the exam grid (evaluation) | Tutorials, computer practice and discussion | LCD and Computer | 2x50 minutes | | Listening and effective communication skills | | Epidemiology Data Management Module |
| FINAL TERM EXAMINATION | | | | | | | | | |

C. REQUIRED TEXTS / REFERENCES / ESSENTIAL READINGS