**Course: 352-523 Computing, Data and Database Managemen**t

⭘ Secondary responsibilities ⚫ Main responsibilities

**5 PLOs with 7 CLOs**

| **Program learning outcomes (PLOs)** |  | **Course Learning Outcomes (CLOs)**  | **Teaching and learning approach** | **Student assessment** | **Topics in this subject** |
| --- | --- | --- | --- | --- | --- |
| PLO1 To generate morally and ethically sound research. | ⚫ | 1. Students can discuss the importance of avoiding plagiarism in conducting research and document preparation.
2. Students can discuss the influence of quality of data on research ethics
 | 1. Discussion in the lecture session
2. Hands-on practice in class
 | 1. Class attendance2. Short essay examination | - Plagiarism- Data management  |
| PLO2 To design research studies in response to the needs of stakeholders. | ⭘ | 3. Students can explain the appropriate study design from the literatures through internet search to respond the stakeholder’s need. | 1. Discussion in the lecture session
2. Hands-on practice in class
 | 1. Class attendance2. In-class exercise | - Literature search |
| PLO3 To use information technology to search health-related information for research. | ⚫ | 4. Students can apply the literature search relevant to research of interest.5. Students can use appropriate references for research and presentation. | 1. Discussion in the lecture session
2. Hands-on practice in class
 | 1. Class attendance2. In-class exercise3. Assignment | - Literature search |
| PLO4 To relate theoretical health concepts into research through critical appraisal of the evidence. |  |  |  |  |  |
| PLO5 To generate community-based, community-oriented, community-participating field research with skills in leadership and problem-solving. |  |  |  |  |  |
| PLO6 To appropriately appraise research findings amidst the evolving state of knowledge in epidemiology. | ⚫ | 6. Students can execute the data set for analysis. | 1. Discussion in the lecture session2. Hands-on practice in class  | 1. Class attendance2. In-class exercise | - Data management  |
| PLO7 To demonstrate mastery of principles of epidemiology and statistics in relation to health research. |  |  |  |  |  |
| PLO8 To analyze big or complex data with clear presentation advocating appropriate usage of the findings. | ⚫ | 7. Students can perform academic presentation using basic computer presentations. | 1. Discussion in the lecture session2. Hands-on practice in class  | 1. Class attendance2. In-class exercise3. Assignment | - Basic computer use- Data management |
| PLO9 To produce high-quality research article(s) translatable to policy and practice. |  |  |  |  |  |

**Matrixes of PLOs and CLOs of 352-523 Computing, Data and Database Managemen**t

|  |  |
| --- | --- |
|  | **CLOs** |
| PLOs |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | ⚫ | x | x |  |  |  |  |  |
| 2 | ⭘ |  |  | x |  |  |  |  |
| 3 | ⚫ |  |  |  | x | x |  |  |
| 4 |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |
| 6 | ⚫ |  |  |  |  |  | x |  |
| 7 |  |  |  |  |  |  |  |  |
| 8 | ⚫ |  |  |  |  |  |  | x |
| 9 |  |  |  |  |  |  |  |  |