**SEMESTER LEARNING PLAN (RPS)**

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|  | **STATE UNIVERSITY OF PADANG****FACULTY OF ENGINEERING****ELECTRONIC DEPARTMENT****INFORMATIC EDUCATION STUDY PROGRAM** | **Document Code** |
| **SEMESTER LEARNING PLAN (SLP)** |

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| **COURSES** | **CODE** | **Course Group** | **Credit Point(s)** | **SEMESTER** | **Date Of Creation** |
| Database Design |   |  | 2 SKS (PRACTICE) | 4 (even) | July 2017 |
| **Authorization:** | **Lecturer** | **Course Coordinator** | **Coordinator of Study Program** |
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 | **Nurindah Dwiyani, S.Pd, MT** **NIP. 197801182008122001** | **Ahmaddul Hadi, M.Kom****NIP. 19761 209 200 501 100 3** |
| **Learning Outcomes (CP)** | **PLO** |
| S8 | Internalizing academic values, norms and ethics  |
| S9 | Demonstrate an attitude of responsibility for work in their field of expertise independently. |
| P3 | Able to formulate various real problems based on concepts related to the field of information and programming. |
| KU1 | Able to apply logical, critical, systematic and innovative thinking in the context of developing or implementing science and technology that pays attention to and applies humanities values ​​in accordance with their field of expertise. |
| KU5 | Able to make decisions appropriately in the context of problem solving in their area of ​​expertise, based on the results of information and data analysis. |
| KU9 | Capable of documenting, storing, securing, and recovering data to ensure validity and prevent plagiarism |
| KK1 | Able to apply information technology to solve real problems in the era of the industrial revolution 4.0. |
| **CO** |
| CO-1 | Students are able to design ERD using the phpMySQL application |
| CO-2 | Students are able to design and create databases using the phpMySQL application |
| CO-3 | Students are able to design and create interfaces using web applications. |
| CO-4 | Students are able to create source code for each application that has been designed; run applications that have been designed. |
| **Course Description** | Students are able to design Entity Relationship Diagram (ERD) and transform in physical form (database) and collaborate with web programming language (interface). |
| **Course Matter** |  web programming (interface). |
| **References** | **Main:** |
| 1. Systems Analysis and Desain Method; Sixth Edition, Jeffery L. Whitten, Lonnie D. Bentley, Kevin C. Dittman; McGrawHill; 2004
2. Object-Oriented and Classical Software Engineering Sixth Edition; Stepen R. Schach; McGrawHill; 2005
3. Hitchhiker’s Guide to Visual Basic and SQL Server Sixth Edition; William R.Vaughn; Microsoft Press; 1998
4. Database Management Systems Desain & Building Bussiness Application; Mc.Graw Hill; 2005
5. Mastering SQL Server 2000; Mike Gunderloy, Josep L. Jorder; Sybex; 2000
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| **Supporting:** |
|   |
| **Learning Media** | **Software:** | **Hardware :** |
| 1. Html
2. PhpMySQL
 | Laptop, LCD & Projector |
| **Lecturer** | Database Design Lecturer Team |
| **Prerequisites** | - |

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| **Weeks-** | **Sub-CO****(Expected Final Ability in each learning stage)** | **Assessment Indicator** | **Assessment Criteria** | **Learning Method, Students’ Learning Experience****[Time Allocation]** | **Learning Material****[Topic from Reference]** | **Score (%)** |
| **(1)** | **(2)** | **(3)** | **(4)** | **(5)** | **(6)** | **(7)** |
| 1-3 | Students are able to design ERD using the phpMySQL application | Introduction:Learning Contracts, and Introduction to MySQL Structures. | **Criteria**:Grading criteria rubric**Non-test form**:* Practice Designing ERD using PhpMySQL properly
* Report practice;
 | * **Lectures & discussions**

 **[TM: 1x (3x50 ”)]**• **Task 1**: Designing ERD using PhpMySQL properly**[BT + BM: (1 + 1) x (3x60 ”)]** | Designing ERD using PhpMySQL properly | **10** |
| 4-6 | Students are able to design and create databases using the phpMySQL application | Designing and Creating a database using PhpMySQL properly | **Criteria**:Grading criteria rubric**Non-test form**:* Practice Designing and Creating a database using PhpMySQL properly;
* Practice report;
 | * **Lectures & discussions**

**[TM: 1x (3x50 ”)]*** **Task 1** : Design and build database using PhpMySQL properly.

**[BT + BM: (1 + 1) x (3x60 ”)]** | Using PhpMySQL  | **15** |
| 7-9 | Students are able to design and create interfaces using web applications. | Design and make interfaces using web applications well | **Criteria**:Grading criteria rubric**Non-test form**:* Practice Designing and making interfaces using web applications well
* Practice report;
 | * **Lectures & discussions**

 **[TM: 1x (3x50 ”)]****Task 1**: Design and make interfaces using web applications well. **[BT + BM: (1 + 1) x (3x60 ”)]** | Using PhpMySQL  | **15** |
| 10 | Midterm exam | **5** |
| 11-15 | Students are able to create source code for each application that has been designed; run applications that have been designed. | Create source code properly and run applications properly. | **Criteria**:Grading criteria rubric**Non-test form**:Practice: Source code properly and run applications correctly.* Practice report;
 | * **Lectures & discussions**

**[TM: 1x (3x50 ”)]****Duty**: Properly source code and run applications correctly. **[BT + BM: (1 + 1) x (3x60 ”)]** | Using PhpMySQL  |  |
| 8 | **Final Exam / Semester Examination**  |  |