|  | | Document Code |
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| <br>(UNESA logo) | **Universitas Negeri Surabaya**<br>**Vocational Faculty,**<br>**D4 Informatics Management Study Program** | |

## SEMESTER LEARNING PLAN

| Courses | | CODE | Course Family | | Credit Weight | | | SEMESTER | Compilation Date |
|---|---|---|---|---|---|---|---|---|---|
| **Prac. Advanced Web Programming** | | 5730101165 | | | T=0 | P=2 | ECTS=3.18 | 4 | July 17, 2024 |
| **AUTHORIZATION** | | **SP Developer** | | **Course Cluster Coordinator** | | | **Study Program Coordinator** | | |
| | | ...................................... | | ...................................... | | | Dodik Arwin Dermawan, S.ST., S.T., M.T. | | |

| **Learning model** | **Case Studies** |
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| **Program Learning Outcomes (PLO)** | **PLO study program which is charged to the course** |
| | **Program Objectives (PO)** |
| | **PLO-PO Matrix** |
| | P.O |
| | **PO Matrix at the end of each learning stage (Sub-PO)** |
| | P.O — Week 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 |
| **Short Course Description** | Discusses the application of JSON, Google API, PHP OOP, the basics of Web Frameworks, OOP in Web Programming, OOP in Web Databases, MVC (Controller) Concepts, MVC (View) Concepts, and MVC (Model) Concepts. Apart from that, we also study the implementation of AJAX and JQUERY in the web framework. This course also teaches the use and application of the Web Framework which is implemented in several case studies |
| **References** | **Main :** |

1. Betha Sidik, Ir. 2001. Pemrograman Web dengan PHP . Bandung: Penerbit INFORMATIKA.
2. Lukmanul Hakim. 2010. Bikin Website Super Keren dengan PHP & Jquery. Yogyakarta: Penerbit Lokomedia
3. Lukmanul Hakim. 2011. Trik Dahsyat menguasai AJAX dengan jQuery. Yogyakarta: Penerbit Lokomedia
4. Lukmanul Hakim. 2013. Responsive Web Design dengan PHP & Bootstrap. Yogyakarta: Penerbit Lokomedia
5. Awan Pribadi Basuki. 2017. Konsep dan Teknik Menguasai Modern OOP di PHP. Yogyakarta: Penerbit Lokomedia
6. David Naista. 2016. Bikin Framework PHP Sendiri dengan Teknik OOP & MVC. Jakarta: Penerbit Lokomedia

| | **Supporters:** |
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| | |
| **Supporting lecturer** | Ari Kurniawan, S.Kom., M.T.<br>Asmunin, S.Kom., M.Kom.<br>Andi Iwan Nurhidayat, S.Kom., M.T. |

| Week- | Final abilities of each learning stage (Sub-PO) | Evaluation | | Help Learning, Learning methods, Student Assignments, [ Estimated time] | | Learning materials [ References ] | Assessment Weight (%) |
|---|---|---|---|---|---|---|---|
| | | Indicator | Criteria & Form | Offline ( *offline* ) | Online ( *online* ) | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |

| | | | | | | | |
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| 1 | Students are able to create websites with POP and OOP programming in PHP | Creating a web with POP and OOP programming. Understand the advantages and disadvantages of POP and OOP programming in PHP | **Criteria:** Holistic Rubric | Presentation, discussion, demonstration & reflection 2 X 50 | | | 0% |
| 2 | Students are able to create websites using OOP concepts using the PHP language | Create OOP programming in PHP | **Criteria:** Holistic Rubric | Presentation, discussion, demonstration & reflection 2 X 50 | | | 0% |
| 3 | Students are able to create Classes, Objects, Method Chaining, Abstract Classes, Abstract Methods | Able to create classes and objects. Method Chaining, Abstract Class, Abstract Method | **Criteria:** Holistic Rubric | Presentation, discussion, demonstration & reflection 2 X 50 | | | 0% |
| 4 | Students are able to create Classes, Objects, Method Chaining, Abstract Classes, Abstract Methods | Able to create classes and objects. Method Chaining, Abstract Class, Abstract Method | **Criteria:** Holistic Rubric | Presentation, discussion, demonstration & reflection 2 X 50 | | | 0% |
| 5 | Students are able to apply Encapsulation, Inheritance, Interface, Polymorphism | Able to apply Encapsulation, Inheritance, Interface, Polymorphism in OOP | **Criteria:** Holistic Rubric | Presentation, discussion, demonstration & reflection 2 X 50 | | | 0% |
| 6 | Students are able to apply Encapsulation, Inheritance, Interface, Polymorphism | Able to apply Encapsulation, Inheritance, Interface, Polymorphism in OOP | **Criteria:** Holistic Rubric | Presentation, discussion, demonstration & reflection 2 X 50 | | | 0% |
| 7 | Students are able to apply Type Hinting, Trait, Namespace | Implement Hinting, Trait, Namespace | **Criteria:** Holistic Rubric | Presentation, discussion, demonstration & reflection 2 X 50 | | | 0% |
| 8 | Subsummative Exam / Midterm Exam | Subsummative Exam / Midterm Exam | **Criteria:** Subsummative Exam / Midterm Exam | Subsummative Exam / Midterm Exam 2 X 50 | | | 0% |
| 9 | Students are able to create a basic framework using the MVC (Model View Controller) concept | Create a basic framework using the MVC (Model View Controller) concept | **Criteria:** Holistic Rubric | Presentation, discussion, demonstration & reflection 2 X 50 | | | 0% |
| 10 | Students are able to create a Laravel Blade Template | Students are able to create a Laravel Blade Template | **Criteria:** Holistic Rubric | Presentation, discussion, demonstration & reflection 2 X 50 | | | 0% |
| 11 | Students are able to create forms and HTML | Students are able to create forms and HTML | **Criteria:** Holistic Rubric | Presentation, discussion, demonstration & reflection 2 X 50 | | | 0% |
| 12 | Students are able to create a Schema Builder | Students are able to create a Schema Builder | **Criteria:** Holistic Rubric | Presentation, discussion, demonstration & reflection 2 X 50 | | | 0% |
| 13 | Students are able to create programs about Migrations | Students are able to create programs about Migrations | **Criteria:** Holistic Rubric | Presentation, discussion, demonstration & reflection 2 X 50 | | | 0% |

| 14 | Students are able to create Seeding in the program | Students are able to create Seeding in the program | **Criteria:** Holistic Rubric | Presentation, discussion, demonstration & reflection 2 X 50 | | | 0% |
| 15 | Students are able to make Eloquent | Students are able to make Eloquent | **Criteria:** Holistic Rubric | Presentation, discussion, demonstration & reflection 2 X 50 | | | 0% |
| 16 | Summative Exam / Final Semester Exam | Summative Exam / Final Semester Exam | **Criteria:** Summative Exam / Final Semester Exam | Summative Exam / Final Exam Semester 2 X 50 | | | 0% |

**Evaluation Percentage Recap: Case Study**

| No | Evaluation | Percentage |
|---|---|---|
| | | 0% |

**Notes**

1. **Learning Outcomes of Study Program Graduates (PLO - Study Program)** are the abilities possessed by each Study Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study program obtained through the learning process.
2. **The PLO imposed on courses** are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
4. **Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
5. **Indicators for assessing** ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
6. **Assessment Criteria** are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
7. **Forms of assessment:** test and non-test.
8. **Forms of learning:** Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
9. **Learning Methods:** Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
10. **Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
11. **The assessment weight** is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
12. TM=Face to face, PT=Structured assignments, BM=Independent study.