



Universitas Negeri Surabaya
Faculty of Engineering,
Undergraduate Study Program in Informatics Engineering

Document Code

SEMESTER LEARNING PLAN

| Courses | CODE | Course Family | Credit Weight | | | SEMESTER | Compilation Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Software Project Management | 5520203142 | | T=3 | P=0 | ECTS=4.77 | 7 | July 18, 2024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUTHORIZATION | SP Developer | | Course Cluster Coordinator | | | Study Program Coordinator | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Aditya Prapanca, S.T., M.Kom. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Learning model | Project Based Learning | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Program Learning Outcomes (PLO) | PLO study program that is charged to the course | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Program Objectives (PO) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PO - 1 | Students are able to appreciate the diversity of cultures, views, religions and beliefs, as well as the original opinions or findings of other people | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PO - 2 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PO - 3 | Able to study the implications of developing or implementing science and technology that pay attention to and apply humanities values according to their expertise based on scientific principles, procedures and ethics in order to produce solutions, ideas, designs or art criticism | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PO - 4 | Able to maintain and develop working networks with supervisors, colleagues, colleagues both inside and outside the institution. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PLO-PO Matrix | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="margin: auto;"> <tr><td>P.O</td></tr> <tr><td>PO-1</td></tr> <tr><td>PO-2</td></tr> <tr><td>PO-3</td></tr> <tr><td>PO-4</td></tr> </table> | | | | | | P.O | PO-1 | PO-2 | PO-3 | PO-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P.O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PO-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PO-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PO-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PO-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PO Matrix at the end of each learning stage (Sub-PO) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1" style="margin: auto;"> <thead> <tr> <th rowspan="2">P.O</th> <th colspan="16">Week</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th> </tr> </thead> <tbody> <tr><td>PO-1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>PO-2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>PO-3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>PO-4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> | | | | | | P.O | Week | | | | | | | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | PO-1 | | | | | | | | | | | | | | | | | PO-2 | | | | | | | | | | | | | | | | | PO-3 | | | | | | | | | | | | | | | | | PO-4 | | | | | | | | | | | | | | | | |
| P.O | Week | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PO-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PO-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PO-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PO-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Short Course Description | This lecture discusses the processes, methods, techniques and tools used by organizations to manage information systems projects. The discussion includes a systematic methodology for initiating, planning, running, controlling and closing projects. Project management is work carried out in groups, so the ability to manage team performance is the main thing in this course. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| References | Main : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1. Hariyanto, Bambang. (2000). Struktur Data. Penerbit Informatika, Bandung.
2. Sanjaya, Dwi. (2005). Asyiknya Belajar Struktur Data di Planet C++. Elex Media Komputindo, Jakarta.
3. Goodrich, Michael T., et al. (2014). "Data Structures and Algorithms in Java". 6th Edition. Wiley.
4. Buditjahjanto. (2021). PELATIHAN PENGEMBANGAN TEACHING FACTORY BERBASIS KEARIFAN LOKAL DI SMKN/S KABUPATEN NGANJUK

Supporters:

1. Hallows, Jolyon. (2005) Information Systems Project Management: How to Deliver Function and Value in Information Technology Projects. Amacom Books, USA.

Supporting lecturer Paramitha Nerisafitra, S.ST., M.Kom.

| 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) |
| 1 | Students understand the role of project management, project management principles and philosophy, as well as project success and failure factors | <ol style="list-style-type: none"> 1. Project management role 2. Project management principles and philosophy 3. Factors of project success and failure | <p>Criteria: precision and mastery</p> <p>Form of Assessment : Participatory Activities</p> | lectures, case studies 3x45 | | | 0% |
| 2 | Students understand the role of project management, project management principles and philosophy, as well as project success and failure factors | <ol style="list-style-type: none"> 1. Project management role 2. Project management principles and philosophy 3. Factors of project success and failure | <p>Criteria: precision and mastery</p> <p>Form of Assessment : Participatory Activities</p> | lectures, case studies 3x45 | | | 0% |
| 3 | Students understand the process and life cycle of project management | <ol style="list-style-type: none"> 1. Project management process 2. Project management cycle | <p>Criteria: Precision and mastery</p> <p>Form of Assessment : Portfolio Assessment</p> | lectures, case studies 3x45 | | | 0% |
| 4 | Students understand project planning, identify project scope, work breakdown structure, and prepare project schedule and resource estimates. | <ol style="list-style-type: none"> 1. Project planning 2. Identify the project environment 3. Workbreak own structure 4. Preparation of project schedules and resources | <p>Criteria: Precision and mastery</p> <p>Form of Assessment : Participatory Activities, Portfolio Assessment</p> | Lectures, Group discussions, Case Studies 3x45 | | | 0% |
| 5 | Students understand project planning, identify project scope, work breakdown structure, and prepare project schedule and resource estimates. | <ol style="list-style-type: none"> 1. Project planning 2. Identify the project environment 3. Workbreak own structure 4. Preparation of project schedules and resources | <p>Criteria: Precision and mastery</p> <p>Form of Assessment : Participatory Activities, Portfolio Assessment</p> | Lectures, Group discussions, Case Studies 3x45 | | | 0% |

| | | | | | | |
|----|--|---|--|--|--|----|
| 6 | Students understand project planning, identify project scope, work breakdown structure, and prepare project schedule and resource estimates. | <ol style="list-style-type: none"> 1. Project planning 2. Identify the project environment 3. Workbreak own structure 4. Preparation of project schedules and resources | <p>Criteria: Precision and mastery</p> <p>Form of Assessment : Participatory Activities, Portfolio Assessment</p> | Lectures, Group discussions, Case Studies 3x45 | | 0% |
| 7 | Students understand issues in organizations, project manager responsibilities, conflict resolution, and team management | <ol style="list-style-type: none"> 1. Issues in organizations 2. Project management responsibilities 3. Conflict resolution 4. Team management | <p>Criteria: Precision and mastery</p> <p>Form of Assessment : Participatory Activities</p> | Lectures, Group discussions, Case Studies 3x45 | | 0% |
| 8 | Students understand issues in organizations, project manager responsibilities, conflict resolution, and team management | <ol style="list-style-type: none"> 1. Issues in organizations 2. Project management responsibilities 3. Conflict resolution 4. Team management | <p>Criteria: Precision and mastery</p> <p>Form of Assessment : Participatory Activities</p> | Lectures, Group discussions, Case Studies 3x45 | | 0% |
| 9 | Midterm exam | | | | | 0% |
| 10 | Students are able to show and explain information systems project planning in case studies | show and explain information systems project planning in case studies | <p>Criteria: Precision and mastery</p> <p>Form of Assessment : Participatory Activities, Tests</p> | Lectures, Group discussions, Case Studies 3x45 | | 0% |
| 11 | Students are able to show and explain information systems project planning in case studies | show and explain information systems project planning in case studies | <p>Criteria: Precision and mastery</p> <p>Form of Assessment : Participatory Activities, Tests</p> | Lectures, Group discussions, Case Studies 3x45 | | 0% |
| 12 | Students understand how to manage risk in information systems projects | <ol style="list-style-type: none"> 1. Risk reduction in projects 2. mitigation | <p>Criteria: Precision and mastery</p> <p>Form of Assessment : Portfolio Assessment</p> | group presentation 3x45 | | 0% |
| 13 | Students understand how to determine and measure the quality of information systems projects | <ol style="list-style-type: none"> 1. Determination of project quality 2. Measuring project quality | <p>Criteria: Precision and mastery</p> <p>Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment</p> | Lectures, Group discussions, Case Studies 3x45 | | 0% |
| 14 | Students understand how to determine and measure the quality of information systems projects | <ol style="list-style-type: none"> 1. Determination of project quality 2. Measuring project quality | <p>Criteria: Precision and mastery</p> <p>Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment</p> | Lectures, Group discussions, Case Studies 3x45 | | 0% |

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|----|---|---|---|--|--|--|----|
| 15 | Students are able to show and explain the results and lessons learned of information systems projects in case studies | Lessons learned information system projects in case studies | Criteria: Precision and mastery Form of Assessment : Project Results Assessment / Product Assessment, Portfolio Assessment | Lectures, Group discussions, Case Studies 3x45 | | | 0% |
| 16 | Final exams | | | | | | 0% |

Evaluation Percentage Recap: Project Based Learning

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

Notes

- 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.
- 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.
- 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.
- 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.
- Indicators for assessing** abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities or performance of student learning outcomes accompanied by evidence.
- 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.
- Forms of assessment:** test and non-test.
- 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.
- 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.
- Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 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%.
- TM=Face to face, PT=Structured assignments, BM=Independent study.