


|  | | Universitas Negeri Surabaya Vocational Faculty, D4 Civil Engineering Study Program | | | | | Document Code | | | | | | | | | | | | | | | | | | |
|---|--|---|----------------------|---|----------------------|---------------------------------------|-----------------------|-------------------------|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| SEMESTER LEARNING PLAN | | | | | | | | | | | | | | | | | | | | | | | | | |
| Courses | | CODE | Course Family | | Credit Weight | | SEMESTER | Compilation Date | | | | | | | | | | | | | | | | | |
| STONE AND IRONMENT PRACTICUM | | 2230502032 | | | T=2 | P=0 | ECTS=3.18 | 4 July 17, 2024 | | | | | | | | | | | | | | | | | |
| AUTHORIZATION | | SP Developer | | Course Cluster Coordinator | | Study Program Coordinator | | | | | | | | | | | | | | | | | | | |
| | | | | | | Puguh Novi Prasetyono, S.Pd., M.T. | | | | | | | | | | | | | | | | | | | |
| Learning model | Project Based Learning | | | | | | | | | | | | | | | | | | | | | | | | |
| Program Learning Outcomes (PLO) | PLO study program that is charged to the course | | | | | | | | | | | | | | | | | | | | | | | | |
| | Program Objectives (PO) | | | | | | | | | | | | | | | | | | | | | | | | |
| | PLO-PO Matrix | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1" style="margin: auto;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">P.O</td> <td colspan="16"></td> </tr> </table> | | | | | | | | | P.O | | | | | | | | | | | | | | | |
| | P.O | | | | | | | | | | | | | | | | | | | | | | | | |
| Short Course Description | Understanding simple stone and concrete work, equipment and materials used, half-stone wall masonry work, single-stone wall masonry work, and iron work. | | | | | | | | | | | | | | | | | | | | | | | | |
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| References | Main : | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1. Job Sheet Peraktek kerja batu, Agus Wiyono, 2015, Menggambar Bangunan tingkat lanjut Direktorat PSMK, Dikbud, 2008, Fundamentals of Building construction material and methods. Edward Allen, Erlangga, 20054. Ernest Neufert, Sunarto Tjahjadi, Erlangga, 1996 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Supporters: | | | | | | | | | | | | | | | | | | | | | | | | |
| Supporting lecturer | Drs. Hasan Dani, M.T. Anggi Rahmad Zulfikar, M.T. Irfan Prasetyo Loekito, S.T., M.Sc. | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | Get to know: the meaning and scope of practicing stone skills | Explain: the meaning and scope of practicing stone skills | Criteria: Full marks are obtained if students can explain the meaning and scope of practice of masonry skills completely and clearly. | Lectures, discussions, questions and answers 2 X 50 | | | 0% |
| 2 | Get to know: Equipment and materials used to practice masonry skills | Describes the tools and materials used to practice masonry skills | Criteria: Full marks are obtained if students can explain the equipment and materials used in practicing masonry skills completely and clearly. | Lectures, discussions and questions and answers. 2 X 50 | | | 0% |
| 3 | Able to make straight 1/2 stone wall pairs | 1. Explain practical tools for installing straight 1/2 stone walls. Explain practical materials for installing 1/2 straight stone walls 3. Explains the practical procedure for installing straight 1/2 stone walls | Criteria: Full marks are obtained if the student can make a pair of straight 1/2 stone walls that are flat, not chipped, perpendicular, quickly and cleanly | pracitcum 2 X 50 | | | 0% |
| 4 | Able to make L type 1/2 stone wall pairs | 1. Explain the practical tools for installing 1/2 stone wall type L2. Explain the practical materials for installing 1/2 stone walls of type L3. Explain the practical procedure for installing 1/2 stone L type walls | Criteria: Full marks are obtained if students can make a pair of L-type 1/2 stone walls with angles, flat, non-slip, perpendicular, quickly and cleanly. | Practical 2 X 50 | | | 0% |
| 5 | Able to make T type 1/2 stone wall pairs | 1. Explain the practical tools for installing T2 type 1/2 stone walls. Explain practical materials for installing 1/2 stone walls of type T3. Explain the practical procedure for installing 1/2 stone type T walls | Criteria: Full marks are obtained if students can make a pair of T-type 1/2 stone walls with angles, flat, non-slip, perpendicular, quickly and cleanly. | pracitcum 2 X 50 | | | 0% |

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| 6 | Able to make cross-type 1/2 stone wall pairs | 1. Explain the practical tools for pairing 1/2 stone walls with cross type. Explain the practical materials for pairing a 1/2 stone wall with a cross type 3. Explains the practical procedure for pairing a 1/2 stone cross-type wall | Criteria: Full marks are obtained if the student can make a pair of 1/2 stone walls of the cross type with angles, flat, without blades, perpendicular, quickly and cleanly. | pracicum 2 X 50 | | | 0% |
| 7 | U.S.S | | Criteria: good value if done correctly, precisely and quickly | 2 X 50 | | | 0% |
| 8 | Able to make a pair of straight 1 stone walls | 1. Explain practical tools for installing 1 straight stone wall. Explain practical materials for installing 1 straight stone wall 3. Explains the practical procedure for installing 1 straight stone wall | Criteria: Full marks are obtained if students can make a pair of L-type 1-stone walls with angles, flat, non-slip, perpendicular, quickly and cleanly. | pracicum 2 X 50 | | | 0% |
| 9 | Able to make L type 1 stone wall pairs | 1. Explain practical tools for installing 1 straight stone wall. Explain practical materials for installing 1 straight stone wall 3. Explains the practical procedure for installing 1 straight stone wall | Criteria: Full marks are obtained if students can make a pair of T-type 1-stone walls with angles, flat, non-slip, perpendicular, quickly and cleanly. | pracicum 2 X 50 | | | 0% |
| 10 | Able to make T type 1 stone wall pairs | 1. Explain practical tools for installing 1 straight stone wall. Explain practical materials for installing 1 straight stone wall 3. Explains the practical procedure for installing 1 straight stone wall | Criteria: Full marks are obtained if students can make a pair of 1-stone walls of the cross type with angles, flat, non-slip, perpendicular, fast and clean. | pracicum 2 X 50 | | | 0% |

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| 11 | Able to make cross-type 1-stone wall pairs | 1. Explain the practical tools for pairing a 1-stone wall with a cross type2. Explain the practical material for pairing a 1-stone wall with a cross type 3. Explains the practical procedure for installing a cross-type 1-stone wall | Criteria: Full marks are obtained if the student can make a begel with an elbow, flat, without blades, the right size, quickly and cleanly. | pracitcum 2 X 50 | | | 0% |
| 12 | Able to make begel 1 | 1. Explain practical tools for making begel 12. Explain practical materials for making begel 13. Explain practical procedures for making begel 1 | Criteria: Full marks are obtained if the student can make a begel with an elbow, flat, without blades, the right size, quickly and cleanly. | pracitcum 2 X 50 | | | 0% |
| 13 | Able to make begel 2 | 1. Explain practical tools for making begel 2, 2. Explain practical materials for making begel 2, 3. Explain practical procedures for making begel 2 | Criteria: Full marks are obtained if students can assemble columns with strong ties, the right size, quickly and cleanly | pracitcum 2 X 50 | | | 0% |
| 14 | Able to create columns | 1. Explain the practical tools for making columns. Explain the practical material for making columns 3. Explain the practical procedure for making columns | Criteria: Full marks are obtained if students can make reports completely and clearly. | pracitcum 2 X 50 | | | 0% |
| 15 | Able to prepare reports | Explain how to prepare reports | Criteria: Full marks are obtained if students can make reports completely and clearly. | discussion, question and answer 2 X 50 | | | 0% |
| 16 | UAS | | Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment, Portfolio Assessment, Practice / Performance, Tests | | | | 0% |

Evaluation Percentage Recap: Project Based Learning

| 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** 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.
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.