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Universitas Negeri Surabaya Faculty of Mathematics and Natural Sciences Undergraduate Mathematics Study Program

Document Code

SEMESTER LEARNING PLAN Courses CODE Course **Credit Weight SEMESTER** Compilation Family Discrete mathematics 4420103074 T=3 P=0 ECTS=4.77 3 July 17, 2024 Course Cluster Coordinator **AUTHORIZATION** SP Developer Study Program Coordinator Prof. Dr. Raden Sulaiman, M.Si. Learning **Case Studies** model PLO study program that is charged to the course **Program** Learning **Program Objectives (PO)** Outcomes (PLO) **PLO-PO Matrix** P.O PO Matrix at the end of each learning stage (Sub-PO) P.O Week 2 3 5 9 10 16 Short This course examines the concept of basic rules in counting, permutations, combinations, generating functions, recursive relations, and the principle of inclusion-exclusion and applies them to solve daily problems through active learning using expository methods, question and answer and giving Course Description assignments. Main: References 1. I Ketut Budayasa.2016.Matematika Diskrit.University Press Universitas Negeri Surabaya. 2. KH Rosen. 2011. Discrete Mathematics with Applications. 7th edition Mc GrawHill New York. Supporters: Prof. Drs. I Ketut Budayasa, Ph.D. Dr. Budi Rahadjeng, S.Si., M.Si. Supporting lecturer Help Learning, Final abilities of Learning methods, **Evaluation** Student Assignments, [Estimated time] Learning materials each Assessment Weeklearning Weight (%) Indicator Offline Criteria & Form Online (online) stage (Sub-PO) offline (2) (3) (5) (1) (4)(6)(7)(8) 1 0%

3			0%
4			0%
5			0%
6			0%
7			0%
8			0%
9			0%
10			0%
11			0%
12			0%
13			0%
14			0%
15			0%
16			0%

Evaluation Percentage Recap: Case Study

	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.
- 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
- 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.
- 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.
- 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.