



1	Get to know the characteristics of steel construction	Explain the characteristics of steel	<b>Criteria:</b> Full marks if the report is bound, the report is arranged sequentially, and in accordance with theory	Lectures, discussions and questions and answers 3 X 50			0%
2	Students are able to plan connections in steel construction	1.Explain the planning of ASD and LRFD methods 2.Explains connections in steel construction: bolts, rivets, and welds	<b>Criteria:</b> Full marks if the answers are complete, sequential, clear and correct	Lectures, discussions, questions and answers, and 3 X 50 exercises			0%
3	Students are able to plan connections in steel construction	1.Explain the planning of ASD and LRFD methods 2.Explains connections in steel construction: bolts, rivets, and welds	<b>Criteria:</b> Full marks if the answers are complete, sequential, clear and correct	Lectures, discussions, questions and answers, and 2 X 50 exercises			0%
4	Students are able to plan connections in steel construction	1.Explain the planning of ASD and LRFD methods 2.Explains connections in steel construction: bolts, rivets, and welds	<b>Criteria:</b> Full marks if the answers are complete, sequential, clear and correct	Lectures, discussions, questions and answers, and 3 X 50 exercises			0%
5	Students are able to plan connections in steel construction	1.Explain the planning of ASD and LRFD methods 2.Explains connections in steel construction: bolts, rivets, and welds	<b>Criteria:</b> Full marks if the answers are complete, sequential, clear and correct	Lectures, discussions, questions and answers, and 3 X 50 exercises			0%
6	Students are able to plan tensile rods	Explain ASD and LRFD planning for tension members	<b>Criteria:</b> Full marks if the answers are complete, sequential, clear and correct	Lectures, discussions, questions and answers, and 3 X 50 exercises			0%
7	Students are able to plan tensile rods	Explain ASD and LRFD planning for tension members	<b>Criteria:</b> Full marks if the answers are complete, sequential, clear and correct	Lectures, discussions, questions and answers, and 3 X 50 exercises			0%
8	Completing the Last Semester Exam (UTS)	Complete assignments in the time provided and get maximum marks.		Written exam 3 X 50			0%
9	Students are able to plan compression members (columns)	Explain ASD and LRFD planning for compression members (columns)	<b>Criteria:</b> Full marks if the answers are complete, sequential, clear and correct	Lectures, discussions, questions and answers, and 3 X 50 exercises			0%

10	Students are able to plan compression members (columns)	Explain ASD and LRFD planning for compression members (columns)	<b>Criteria:</b> Full marks if the answers are complete, sequential, clear and correct	Lectures, discussions, questions and answers, and 3 X 50 exercises		0%
11	Students are able to plan blocks	Explain ASD and LRFD planning on beams	<b>Criteria:</b> Full marks if the answers are complete, sequential, clear and correct	Lectures, discussions, questions and answers, and 3 X 50 exercises		0%
12	Students are able to plan blocks	Explain ASD and LRFD planning on beams	<b>Criteria:</b> Full marks if the answers are complete, sequential, clear and correct	Lectures, discussions, questions and answers, and 3 X 50 exercises		0%
13	Students are able to plan beam-column	Explain ASD and LRFD planning for beam-columns	<b>Criteria:</b> Full marks if the answers are complete, sequential, clear and correct	Lectures, discussions, questions and answers, and 3 X 50 exercises		0%
14	Students are able to plan beam-column	Explain ASD and LRFD planning for beam-columns	<b>Criteria:</b> Full marks if the answers are complete, sequential, clear and correct	Lectures, discussions, questions and answers, and 3 X 50 exercises		0%
15	Students are able to plan steel construction buildings	Explain ASD and LRFD planning in steel construction buildings	<b>Criteria:</b> Full marks if the answers are complete, sequential, clear and correct	Lectures, discussions, questions and answers, and 3 X 50 exercises		0%
16						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** 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.
- 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.

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.