

Introduction to Manufacturing Creation

Syllabus Number

1J101

Basic Major Subjects

Requisites 2 credit

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1. Course Description

This course is to understand comprehensive manufacturing (development, design, production, etc.) through group-works of machine engineering course and automobile engineering course. Students will learn knowledge, technique, and manner for DP1, DP3, DP4, and DP5.

2. Course Objectives

Objective of this course is to learn the basics of manufacturing, communication skill, and presentation skills.

3. Grading Policy

Plan and report (50%), production (20%), and presentation (30%)

We will make comments on the plan and report during group work. We will give reviews after presentation.

4. Textbook and Reference

5. Requirements(Assignments)

Students must make a plan for next group work (1.5 hours).

6. Note

7. Schedule

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| [1] | Guidance |
| [2] | Introductions to machine engineering course and automobile engineering course |
| [3] | Group-work 1: guidance of group work of machine engineering course |
| [4] | Group-work 1: creation of drawing |
| [5] | Group-work 1: manufacture of parts |
| [6] | Group-work 1: assembly and improvement |
| [7] | Group-work 1: final improvement and preparation of presentation |
| [8] | Group-work 1: presentation and competition |
| [9] | Group-work 2: guidance of group work of automobile engineering course |
| [10] | Group-work 2: decision of design concept, creation of overall drawing |
| [11] | Group-work 2: part design and manufacture |
| [12] | Group-work 2: assembly and improvement |
| [13] | Group-work 2: performance confirmation, final adjustment, and preparation of presentation |
| [14] | Group-work 2: presentation and its comment |
| [15] | Summary |