

# 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   |