

## Production and Manufacturing System

2 units (selection)

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**Target** Work measurement based on predetermined time standard system for advanced manufacturing and production are introduced.

**Outline** This class introduces basic-MOST for work measurement and determination of the standard time based on predetermined time standard system.

**Style** Lecture

**Keyword** *industrial engineering, work measurement, standard time*

**Relational Lecture** “**Theory of Plasticity and Application to Metal Forming Processes**”(0.5)

**Requirement** Students are required to have a good understanding on fundamentals of material processing technologies and manufacturing system.

**Notice** Students are required to prepare and review the class

**Goal** To understand the basic concepts and related aspects of work measurement and predetermined time standard system.

**Schedule**

1. Introduction to work analysis
2. Work study and time study
3. Rating techniques
4. Predetermined time standard system
5. Fundamentals of MOST
6. General move sequence
7. Exercise of the general move sequence
8. Controlled move sequence
9. Exercise of the controlled move sequence
10. Analysis of continuous move
11. Exercise of continuous move
12. Tool use sequence
13. Exercise of the tool use sequence
14. Manual crane sequence
15. Exercise of the manual crane sequence
16. Examination

**Evaluation Criteria** Exercises and assignments count 50%, and examination counts 50%.

**Textbook** Printed synopses are used.

**Reference** Work study, ISBN4-526-00084-1.

**Contents** <http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=216592>

**Contact**

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**Note** Students are required preparation (2 hours) and review (2 hours) for every two hours class work.