

COURSE DETAIL

MANUFACTURING ENGINEERING

Country

Japan

Host Institution

Tohoku University

Program(s)

Engineering and Science

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

123

UCEAP Course Suffix

BW

UCEAP Official Title

MANUFACTURING ENGINEERING

UCEAP Transcript Title

MANUFACTURING ENGR

UCEAP Quarter Units

3.00

UCEAP Semester Units

2.00

Course Description

This course teaches fundamental knowledge of manufacturing technologies focusing on mechanical removal processes and MEMS (Micro Electro Mechanical System).

Machining is denoted as a series of material-working processes which enable the manufacturing of industrial products having various shapes and functions. The fundamentals of four typical material-removal machining methods are introduced: cutting, grinding, polishing and non-traditional machining. The course emphasizes new technologies which can improve the accuracy, quality, and function of the products.

Language(s) of Instruction

English

Host Institution Course Number

N/A

Host Institution Course Title

MANUFACTURING ENGINEERING AND TECHNOLOGY II

Host Institution Course Details

<https://www.insc.tohoku.ac.jp/english/wp-content/uploads/2025/04/782fed4d6f75ef...>

Host Institution Campus

Tohoku University

Host Institution Faculty

Host Institution Degree

Host Institution Department

Engineering

Course Last Reviewed

2024-2025

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