

COURSE DETAIL

THE SMART FACTORY

Country

Korea, South

Host Institution

Seoul National University

Program(s)

Seoul National University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Engineering

UCEAP Course Number

108

UCEAP Course Suffix

UCEAP Official Title

THE SMART FACTORY

UCEAP Transcript Title

SMART FACTORY

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course covers concepts and characteristics required to build and operate a smart factory to improve manufacturing competitiveness. Students first learn about the composition and functions of the 4th Industrial Revolution and smart factories, then examine the general concept of factory automation and learn about the basic components of factory automation such as control systems and PLCs. The course covers functions of corporate information systems such as ERP, MES, APS, and PLM, and concepts of smart factory digital platforms and big data-based decision-making required for intelligent factory operation.

Language(s) of Instruction

Korean

Host Institution Course Number

M3502.014600 001

Host Institution Course Title

SMART FACTORY

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

2024-2025

[Print](#)