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
THE SMART FACTORY

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

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