COURSE DETAIL

WELDING TECHNOLOGY I: WELDING AND CUTTING TECHNOLOGIES
Country China
Host Institution Tsinghua University
Program(s) Tsinghua University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mechanical Engineering
UCEAP Course Number 145
UCEAP Course Suffix
UCEAP Official Title WELDING TECHNOLOGY I: WELDING AND CUTTING TECHNOLOGIES
UCEAP Transcript Title WELDING TECH I
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course focuses on the principles and applications of welding and cutting technology, as well as the latest developments and application status of this technology at home and abroad. It aims to enable students to not only master the basic knowledge of modern welding and cutting and related technologies, but also understand the forefront of discipline development, grasp the development trend of the discipline, broaden their horizons, and activate academic thinking, so as to improve the ability of graduate students to carry out innovative research. The main contents include: introduction to different welding methods such as gas welding, arc welding, resistance welding, pressure welding, high-energy beam welding, as well as cutting methods, welding automation, welding sensors, welding forming methods, etc., focusing on their latest developments and applications.

Language(s) of Instruction
English

Host Institution Course Number
80120253

Host Institution Course Title
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Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed
2024-2025

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