

COURSE DETAIL

LASER PROCESSING AND ADDITIVE MANUFACTURING I

Country

Ireland

Host Institution

Trinity College Dublin

Program(s)

Trinity College Dublin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

173

UCEAP Course Suffix**UCEAP Official Title**

LASER PROCESSING AND ADDITIVE MANUFACTURING I

UCEAP Transcript Title

LASER PROC&MANUFACT

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

In high value added manufacturing industry, engineers are required to understand how mechanical systems and materials behave at length scales at the micron level. This course develops the student's skills and knowledge in both precision engineering and micro engineering. The course considers the selected topics in precision, micromanufacturing, ranging from enabling technologies, and processes to applications. This is research-lead, hence the content can vary on a year-to-year basis. Currently, most of the course focuses on LASER based manufacturing, LASER-Additive Manufacturing (3D printing) with metallic materials, and related automation.

Language(s) of Instruction

English

Host Institution Course Number

MEU44B05

Host Institution Course Title

LASER PROCESSING AND ADDITIVE MANUFACTURING I

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Engineering

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