# COURSE DETAIL

| LASER PROCESSING AND ADDITIVE MANUFACTURING I |
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| **Country**<br>Ireland |
| **Host Institution**<br>Trinity College Dublin |
| **Program(s)**<br>Trinity College Dublin |
| **UCEAP Course Level**<br>Upper Division |
| **UCEAP Subject Area(s)**<br>Mechanical Engineering |
| **UCEAP Course Number**<br>173 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>LASER PROCESSING AND ADDITIVE MANUFACTURING I |
| **UCEAP Transcript Title**<br>LASER PROC&MANUFACT |
| **UCEAP Quarter Units**<br>5.00 |
| **UCEAP Semester Units**<br>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 Course Details**
https://www.tcd.ie/media/tcd/engineering/pdfs/current-students/MEU44B05---Laser...

**Host Institution Campus**

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**
Engineering

**Course Last Reviewed**
2024-2025

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