

MECH 556. MICROFLUIDICS AND BIOMEMS.

Credits: 3

Offered by: Mechanical Engineering (Faculty of Engineering)

This course is not offered this catalogue year.

Description

Fundamentals of micro-electro-mechanical systems (MEMS) and microfluidic devices (also called lab-on-a-chip devices), and their applications to biology and medicine. Topics include: microfabrication techniques, MEMS sensing and actuation principles, microfluidics theories, microfluidic device design, packaging and characterization of MEMS and microfluidic devices, bioanalytical techniques in microfluidics. Students will have the opportunity to conduct two term designs in microfluidics and bioMEMS.

- Note: (3-0-6)

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