ABOUT THE COURSE

Diabetes is a global health concern, affecting millions of lives every day. In this course, we delve into the world of Artificial Intelligence (AI) and its vital role in managing diabetes. Designed for engineering students, our comprehensive curriculum will equip you with the knowledge and skills to address the complex challenges faced by diabetics.

Universitat de Girona

MiceLab
Modeling, Identification & Control Engineering

ARTIFICIAL INTELLIGENCE FOR
DIABETES MANAGEMENT

[Click here for more details](#)

COURSE HIGHLIGHTS

- Explore the relevance and significance of diabetes management.

- Learn about AI approaches for diabetes management.

- Gain hands-on experience through practical exercises.

- Apply your newfound knowledge to real diabetes datasets in your final project.

When: From March, 2024 to May, 2024

Who: Engineering students

Where: Polytechnic School, Campus Montilivi, UdG

Duration: 150 hours

Administrator: Sara Casadesus

Course Director: Ivan Contreras

Academic Management: Omer Mujahid

COURSE OUTLINE

- Introduction to diabetes mellitus and therapies

- Modeling in diabetes

- Supervised learning

- Unsupervised learning

- Artificial pancreas (AP) systems

- Reinforcement learning

- Explainability, ethics, and data privacy in AI

- Faults in AP systems

- Course Projects