AUS | الجامعة الأميركية في الشارقة
American University of Sharjah

The College of Engineering (CEN) at the American University of Sharjah (AUS) has launched the

SPRING 2023 DISCOVER ENGINEERING CAMPAIGN

which includes camps and workshops related to the various engineering disciplines.

- μElectronics For AI Computing and Digitization
- 16th AUS High School Computing Camp (Online)
- Robot Navigation Workshop
- Introduction To Drone Design and Manufacturing
- AI Workshop
- Python for AI & Data Analytics Virtual Camp
- Engineering Shadow Program

The activities are open to students in Grades 8-12.

All activities are FREE and will run on a competitive basis.

Seats are limited.

In this event, you will learn, at the same time enjoy the following:

- Design and make your own Printed Circuit Board (PCB)

- Learn Soldering Techniques and build your PCB

- What is an AI Accelerator?

- How we use fast chips for computer gaming and graphics

Grades 10 - 12

https://forms.aus.edu/230448738542865

The 16th AUS High School Computing Camp is an online educational and entertaining event, targeted at UAE resident students between grades 10-12. During the camp, students will engage in a series of experiments and hands-on activities, related to various topics in Computer Science and Engineering. Students will also explore new grounds of science, and develop essential skills necessary for their future University life

Grades 10 – 12
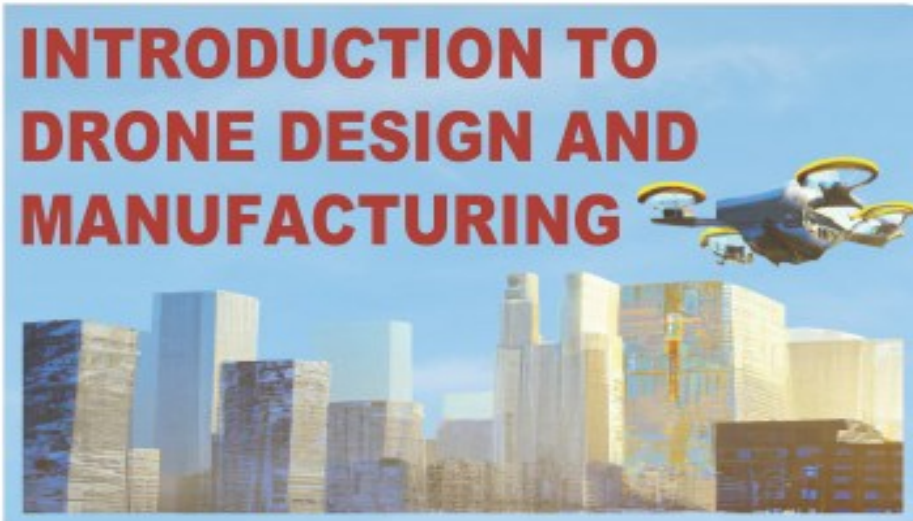
https://auscse.com/camp

This event will introduce students to the key elements required for enabling a robot to navigate autonomously in its surroundings. It will talk about common methods for localization of a robot and how this helps with navigation. Following this, students will be given all the tools and directions to create their own simple robot that can navigate down hallways of the engineering building at AUS.

Grades 10 – 12

https://forms.aus.edu/230449186299064

This event will introduce students to what it takes to build their own drone and get it flying. They can see first hand the different parts that go into building a drone. The different systems that go into locating and controlling a drone. They can experience what it takes to fly a drone in a simulator. And also be introduced to how autopilots are programmed.

Grades 10 – 12

https://forms.aus.edu/230448623977870

The AI Workshop is an educational and entertaining event targeted at school students between grades 8 and 10. Over two days, students will engage in a series of experiments and hands-on activities related to robotics, machine learning, and neural networks & deep learning. Students will explore new grounds of artificial intelligence and develop essential skills necessary for their future University life. The workshop includes a hackathon where students will apply their AI to develop novel solutions and win prizes.

Grades 8 - 10

https://auscse.com/aiworkshop/

What is AI? Are machines taking over? Are machines out of our control? What is Python? Why is it famous for AI applications? We discuss all this and the applications of AI algorithms to digital signals derived from electrical devices, such as images, videos, speech signals, brain signals and so on. In this virtual camp you will grasp the basics of Python, grasp the basics of AI algorithms, make your own neural network, and make a bot that connects to a social networking / video sharing website and gather data for further analysis..

Grades 10 - 12
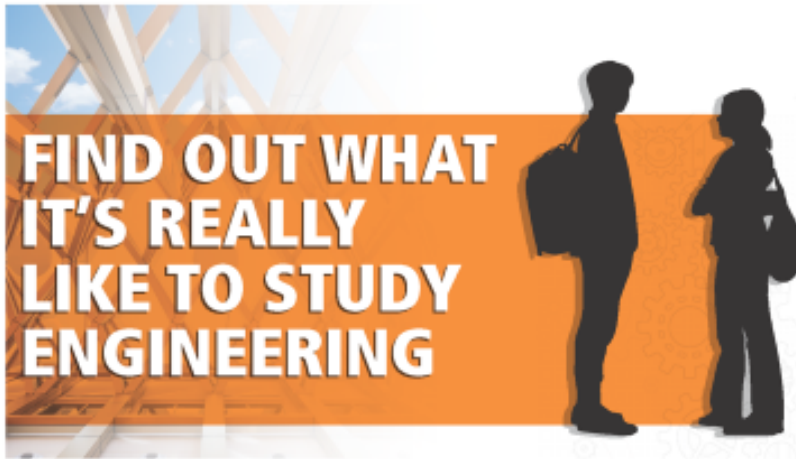
https://forms.gle/1tvk9KNyRVNCKuDf6

Experience university life as an AUS engineering student. Through this program, high school students in grades 11 and 12 get to experience a day in the life of an AUS engineering student. Your guide for the day will be a student in your major of interest, and as their "shadow," you will attend classes, meet our engineering students and professors, and experience some of our on-campus facilities.

Grades 11 - 12

https://www.aus.edu/cen/engineering-shadow-program