



University of
East London

Year of
Science



From our labs to you

Civil Engineering

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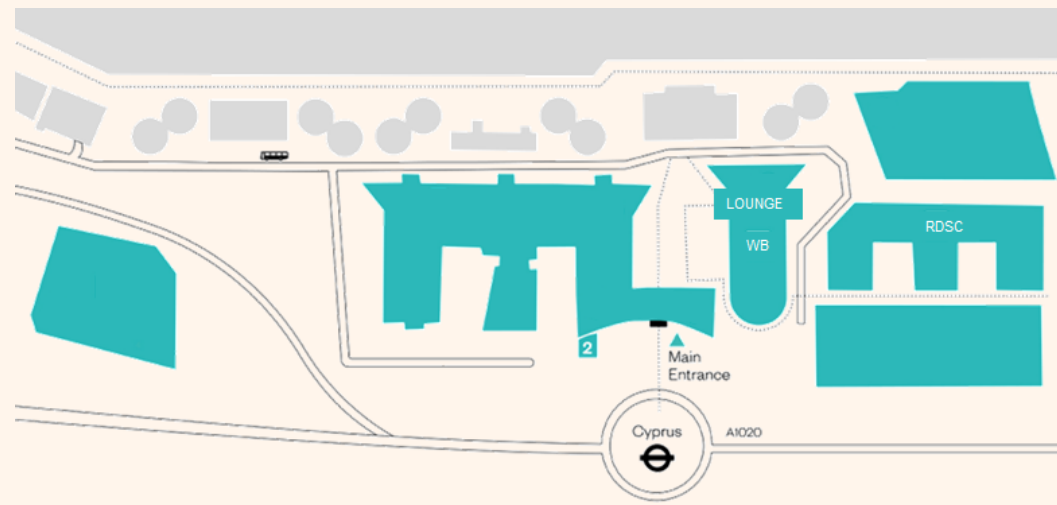
March 2024

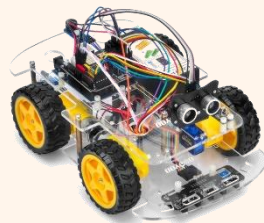
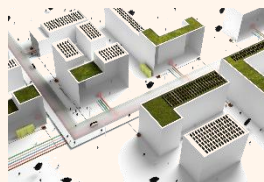
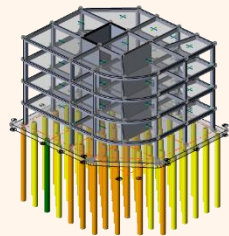
Year of Science Symposium:

Engineering a Greener Future

Agenda

- 09:00 AM - 09:30 AM: Registration (WB.G.02)
- 09:30 AM - 10:00 AM: Welcome Address and Introduction to Engineering (WB.G.02)
- 10:00 AM - 11:00 AM: Talk: Engineer your future career by Deputy Dean of School (WB.G.01)
- 11:00 AM - 12:00 PM: Engineering Awards and Poster Display (WB.G.01 - The Lounge)
- 12:00 PM - 01:00 PM: Lunch
- 01:00 PM - 03:30 PM: Interactive Workshops (Royal Docks Sustainability Centre)
- 03:30 PM - 04:00 PM: Closing Remarks and Distribution of Informational Materials (Royal Docks Sustainability Centre)





Activities

Zone 1

13:00 Design an Iceberg House
#CivilEngineering

13:45

Design and cost an underground development for a London house.

Zone 2

13:00 Earth, Foundations, and Extreme Climates
#CivilEngineering

Design and build foundations that protect buildings from effects of changing climate and extreme environments.

Zone 3

13:00 The Masterplanner
#CivilEngineering

13:45

Do a feasibility study for a new hotel building near the University of East London. Consider ecological, environmental, technical, engineering, and socio-economical players.

Zone 4

13:00 Autonomous Robotic Cars
#Mechatronics

From programming to signaling, the future of transport! Steer autonomous robots.

Zone 5

13:00 Smart homes
#Mechatronics

Zone 6

13:00 Solar Tracking
#Mechatronics

Zone 7

13:00 Laser Scanning and Physical Models
#CivilEngineering

Retrofitting graded buildings of London:
from the initial laser scanning and 3D
printing, to smart solutions.

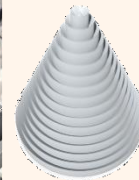
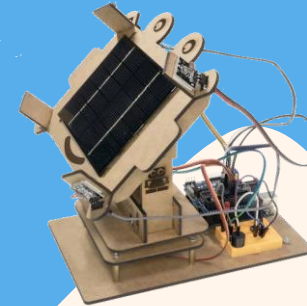
Zone 8

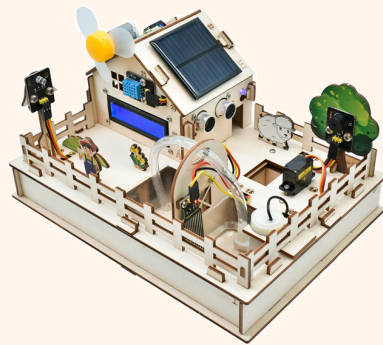
13:00 Nature-inspired Engineering Solutions
#CivilEngineering

13:45 Can you use seaweed that is printed to the
shape of insects instead of concrete,
cement and lime?

Zone 9

13:00 Exhibition
#IntegratedDesign





Zone 10

13:00 Smart Farm #Mechatronics

This is "Internet of Things" ! Try using photoresistor, soil humidity sensors, water level sensors, as well as the ESP32 module. Try wireless communication, smart data collection and processing technologies.

13:00 Shuttles to Flight Simulator

13:30 Wind Tunnel Hydraulic Structures

14:00 Robotic Construction Digital Fabrication

Stay in touch

uel.ac.uk/study/subjects/engineering

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WORLD ENGINEERING DAY FOR SUSTAINABLE DEVELOPMENT



United Nations Educational, Scientific and Cultural Organization

