



St. Anselm's College

Wednesday 08 February 2023

Programme of Activities

10.00 – 10.15	Arrival in our Lab & Welcome (including security induction & account registration)
10.15 – 11.00	Workshop 1: Data to Delivery: Technologies of E-Commerce
11.00 – 11.30	Giant Sorting Network (outdoor activity)
11.30 – 12.00	Lunch Break
12.00 – 12.45	Workshop 2: Lego algorithms
12.45 – 13.45	Hands-on Workshop: EV3 drives the Warehouse
13.45 – 14.00	Closing Talk

All workshops take place in Lab 3 of the George Holt building.

Information about the Activities

Data to Delivery: Technologies of E-Commerce

Ever wondered what happens behind the colorful buttons of a webshop? In this lesson, students will build a simple, fully functional, and publicly accessible E-commerce site using industry standard services. In passing, they will learn about databases and their importance for E-Commerce applications.

Lego algorithms

Can you escape the bricks in this unplugged computer science activity? The lesson conveys fundamentals of algorithms by traversing through a Lego maze and teaches the difference between a list of instructions and a general algorithm.

Lego EV3 Drives the Warehouse

Robots managing large warehouses are one of the many example where automation helps humans to solve a task faster and cheaper. For this to be effective, robots need to be at least partially autonomous, i.e., able to sense and react to the physical world without (constant) human intervention. In this hands-on lesson, pupils program Lego EV3 robots to follow a line, avoid obstacles, and ultimately navigate a warehouse safely and autonomously.