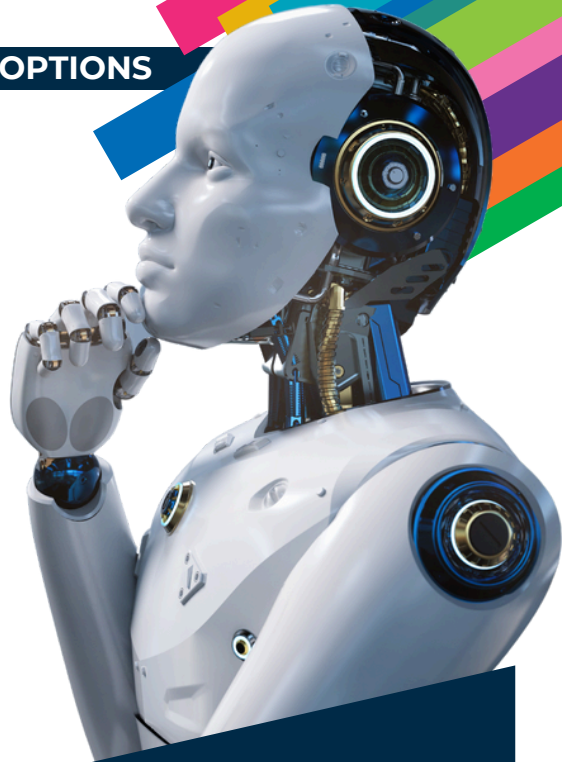


# Robotics & AI

Pro Robotics & AI, delivered by a suitably qualified and experienced instructor, includes 6 hours per week of professional tuition in robotics and artificial intelligence (AI), empowering students to develop their technical skills and apply them to real-world challenges.



## COURSE DETAILS 2025

**Centre:** Uppingham

**Ages:** 13-18yrs

**Dates:**

29 June – 9 August

**Days:**

Mon/Tues/Thurs/Fri

**Levels:**

Beginner

Elementary

Intermediate

**Coaching Ratio:**

1 coach per 12 students

**Coaching Time:**

6 hours p/w

**Price:** £300 p/w

Students focus on developing core skills in robotics and AI. Students learn the basics of programming as well as an introduction to machine learning, algorithms, and data processing.

### OBJECTIVES

- Understand the basics of robotics and AI
- Learn to build, program, and control robots
- Explore machine learning and AI algorithms
- Develop problem-solving and critical thinking skills
- Gain knowledge of sensors, actuators, and coding for robotics
- Set individual project goals and create your own robotics or AI-driven solution

### OTHER BENEFITS

- Expand website design-related vocabulary
- Improve logical thinking and programming skills
- Learn how robotics and AI are used in professional industries
- Explore future career paths in technology and engineering
- Develop 21C skills: creativity, communication, collaboration and critical thinking
- Improve self-confidence



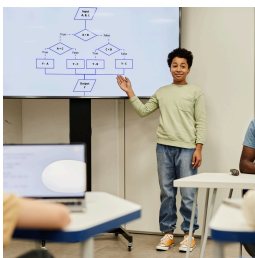
**TECHNICAL TRAINING:**  
Students develop a strong foundation in both mechanical and digital systems. Students will learn essential skills in robotics engineering and problem-solving with AI technologies.

**ARTIFICIAL INTELLIGENCE:**  
Students explore AI fundamentals, including machine learning, neural networks, and real-world applications like image recognition and automation. They learn how AI systems analyse data, make decisions, and apply algorithms to solve practical problems.



**ROBOTICS:**  
Students learn to design, build, and program robots. Key skills include robot assembly, coding with common platforms, integrating sensors and actuators, and controlling robots to perform tasks both autonomously and via remote control.

**WHAT TO BRING**  
N/A – All equipment provided by British Summer School



A minimum number of students is required for the Pro Option to run.  
If a Pro Option is cancelled a refund will be given.

For all enquiries and to apply, please contact British Summer School:  
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**admin@britishsummerschool.co.uk**  
**www.britishsummerschool.co.uk**

