

Artificial Intelligence Club

Sessions Overview

Through a series of entertaining and educational workshops, based on practical hands-on experiences, this course is designed to give an appreciation of how Artificial Intelligence contributes to everyday applications and how it may do so in future, through the medium of Photography/Imaging and for pupils to gain an insight into a range of related careers.

Breakdown of sessions for the AI workshops:

Session 1: Introduction to Robotics and AI

Learning opportunities include:

- What is a Robot?
- The essential characteristics of Robots
- What is AI?
- Looking at the differences between Robotics and AI

Session 2: Sensing

Learning opportunities include:

- How machines sense their surroundings
- An introduction to electronic circuits
- Designing and modelling a switching solution
- Using photography to create an instruction set

Session 3: Sensing Electronics

Learning opportunities include:

- Exploring sensing electronics
- How transistors work
- How sensors work
- How sensors help machines make decisions

Session 4: Logic

Learning opportunities include:

- What is meant by Logic?
- Switching and binary code
- How can machines learn?

Session 5: Current Applications of AI

Learning opportunities include:

- Understanding different levels of AI
- How AI is used now
- AI in schools – recording in camera

Session 6: The Future of AI

Learning opportunities include:

- Review of different levels of AI
- Developing ideas for how AI may impact on them in future
- Recording role playing scenarios in camera