

YEAR 9

COMPUTING



SRI KDU
International
School
SUBANG JAYA

PROGRAMME OF STUDY - TERM 2

HTML AND WEBSITE DEVELOPMENT

- **Learn HTML and CSS Fundamentals:** Understand the basics of HTML and CSS for web development.
- **Implement Text Styles and Content:** Learn to style text and add various content including graphics using HTML and CSS.
- **Navigation and Linking:** Develop skills to create navigation links to internal and external web pages.
- **Basic Design Concepts:** Understand the fundamentals of good web design.
- **Develop Web Templates:** Use text editors to create and use HTML templates.

AI AND MACHINE LEARNING

- **AI Applications Awareness:** Understand where AI is used, from solving mazes to advanced applications like self-driving cars.
- **Basics of Machine Learning and Deep Learning:** Learn about the use of machine learning and deep learning in image recognition.
- **Develop AI Programs:** Gain experience in creating simple AI systems, including image recognition and virtual assistants.
- **Sentiment Analysis Application:** Learn to build a sentiment analysis system for applications like film ratings.
- **Ethics of AI:** Discuss and understand the ethical implications of AI and machine learning developments.

ONGOING OBJECTIVES

- **Design and Develop Modular Programs:** This unit aligns with the curriculum's focus on designing and developing web pages using HTML and CSS, which are textual programming languages.
- **Create, Re-use, Revise and Re-purpose Digital Artifacts:** The process of creating, editing, and refining web pages and templates directly relates to this aspect of the curriculum.
- **Understand the Hardware and Software Components:** Understanding how web pages function and are rendered in different devices touches on the basics of how software (web browsers) interacts with hardware (computers, mobile phones).
- **Design, Use, and Evaluate Computational Abstractions:** This unit aligns with creating AI programs that model real-world systems, such as image recognition or sentiment analysis systems.
- **Understand Several Key Algorithms that Reflect Computational Thinking:** The use of algorithms in machine learning and AI programs, especially in image recognition and sentiment analysis, is directly related to this aspect of the curriculum.
- **Undertake Creative Projects Involving Multiple Applications:** Developing AI programs and discussing the ethics of AI involves creative and critical thinking, and the use of various computational tools and concepts.