Industrial	Years	Subject Code	ОР	QCE Credits	VET	Prerequisites
Technology Design	10	ITD	No	No	No	Yes

Head of Department: Mr Keith Holledge

Subject Outline:

Industrial Technology & Design is fundamentally an engineering course of study that provides an opportunity for students to gain an understanding of modern manufacturing processes across a broad spectrum of cad-cam applications. The course draws upon the fundamental principles of Design, Make, and Appraise. These principles are developed within a range of contextual units from Prototyping to a Formula 1 Car (F1 in Schools) as well as Alternative Energy; Engineering Technology Studies is a challenging subject that promotes teamwork, business management, creative design and problem solving skills.

Course Content:						
YEAR 10 (SEMESTER 1)		YEAR 10 (SEMESTER 2)				
Unit 1						
Unit 2	Introduction to Design Princip	Introduction to Design Principles Introduction to CAD/CAM Manufacturing Technology and processes. (Prototyping).				
	technology, engineering and r Design process, Motion, Aero Enterprise & marketing, Indus					

Unit 3

3D printing design and applications.

Assessment Outline:

Results are reported as per the school reporting system. Students will be assessed using a variety of instruments, including:

Design Folio's, Research assignments, Classwork, Homework Folio of drawings/processes, Tests and Teacher observations

Career Pathways:

Designer, Aeronautical Engineering, CAD/CAM designer and/or manufacturer, business management, electronics engineer or electrician.

Potential Activities: Visit to local CAD and computer aided manufacturing industries.

Costs:

Students may be expected to purchase or provide some of their own materials depending upon the chosen design brief.

Student Requirements:

It is recommended that students who are wishing to study this course should have completed one of the following subjects in year 9 at competent level: Graphics, STEM, Computer Studies or The Arts. Sound in English, Mathematics and Science is also highly recommended.

Students will need to provide:

A pencil, 1 A4 project book, 1 A4 display folio, normal writing, 8 gb USB

