MATERIALS AND TECHNOLOGIES SPECIALISATION INDUSTRIAL TECHNOLOGY ENGINEERING

STATUS:	ELECTIVE SUBJECT
COURSE OVERVIEW:	Industrial Technology Engineering provides a range of learning experiences for students pursuing either a vocational or professional career in the engineering industry. This subject provides a sound basis for further vocational studies such as Certificate II in Engineering Pathways in Years 11 and 12 or similar pre-vocational courses.
COURSE OUTLINE:	Students study sheet metalworking, fitting, metal machining and light fabrication. Students will learn to use hand and power tools plus a variety of engineering machines and equipment. Throughout the course students learn about the safe use of appropriate fabrication, finishing and maintenance methods. Practical work is supplemented by the study of underlying principles of tools and equipment and the properties and characteristics of materials. Opportunities to integrate new technologies will be offered to students throughout the course. Unit 1 – Sheet Metalworking (Tool Box Project and OH&S Theory) Unit 2 – Fitting and Fabrication (Fabrication Project and Hand and Power Tools Theory) Unit 3 – Metal Machining (Injection Molding Project and Metalwork Machines Theory) Unit 4 – Light Fabrication (Fabrication Project and Jobs in Engineering Assignment).
COURSE ASSESSMENT:	Students will be assessed through a variety of assessment tasks. These include practical projects, student workbooks, theory tests and assignment. Students will be required to performonline assessment.
STUDY REQUIREMENTS:	Approximately 1-2 hours per week This subject requires a commitment by students to complete all tasks to a satisfactory standard to continue with Vocational Engineering Courses in year 11 and 12. Research of safety induction of tools and equipment and completion of online "On-Guard" Software. Completion of all workshop projects and theory within the nominated timeframe. Regular attendance attutorials.
SPECIAL REQUIREMENTS:	Due to OH&S requirements ALL students participating in this subject are required to wear enclosed leather upper shoes, safety aprons, and safety glasses at all times. Long hair MUST berestrained. Note: Students undergo a routine safety program and throughout the course will be instructed in various safety procedures. Students MUST comply with all safety requirements and procedures to remain in this subject.
POSSIBLE CAREER PATHWAYS:	This subject leads to the Engineering Industry such as Fitter, Machinist, Diesel Fitter, Welder, Boiler Maker, Mechanic, Tool Makeretc.