Technology and Applied Studies

Industrial Technology

COURSE DETAILS

Hours	240 hours
Type	Board Developed Course
Duration	2 years
Unit Value	2-unit Year 11 2-unit Year 12
HSC Exam	Yes
ATAR	Yes
Exclusions	Nil
RECOGNITION	HSC Qualification

COURSE DESCRIPTION

Industrial Technology consists of project work and a focus Study. Students develop a broad range of skills and knowledge related to the focus area chosen.

Industrial Technology seeks to raise students' awareness of the interaction between technology, industry, society and the environment, and to develop their ability to make value judgements about issues, decisions and problems arising from this interaction. Students achieve this by applying practical experiences to the study of the technology, management and organisation of industry.

The focus areas offered at St Catherine's are:
Graphics Industries and Timber Products and Furniture.

The focus area offered will be selected according to student preference

AIMS

Industrial Technology at Stage 6 is designed to develop in students a knowledge and understanding of the selected industry and its related technologies with an emphasis on design, management and production through practical applications.

TOPICS COVERED

Year 11 Course

- Industry Study
- Design
- Management and Communication
- Production
- Industry Related Technology

In the Year 11 course, students design, develop and produce a number of projects. Each project includes a management folio. Students also complete an industry study related to the focus area. The preliminary course aims to develop students' skills to prepare them for the major project which they will undertake during the HSC course.

Year 12 Course

- Industry Study
- Design, Management and Communication
- Production – Students produce a Major Project
- Industry Specific Related Manufacturing Technology

ASSESSMENT

Assessment strategies may include:

- Production/project work
- Folio submission
- Examinations

POTENTIAL CAREERS / REASONS TO CHOOSE COURSE

- Tradesperson (e.g. cabinet maker)
- Draftsperson
- Architect
- Manufacturing industry
- Very capable to work with practical projects
- Enjoys hands-on learning

YEAR 11 COURSE OUTCOMES (from NESA)

P1.1 describes the organisation and management of an individual business within the focus area industry
P1.2 identifies appropriate equipment, production and manufacturing techniques, including new and developing technologies
P2.1 describes and uses safe working practices and correct workshop equipment maintenance techniques
P2.2 works effectively in team situations
P3.1 sketches, produces and interprets drawings in the production of projects
P3.2 applies research and problem-solving skills
P3.3 demonstrates appropriate design principles in the production of projects
P4.1 demonstrates a range of practical skills in the production of projects
P4.2 demonstrates competency in using relevant equipment, machinery and processes
P4.3 identifies and explains the properties and characteristics of materials/components through the production of projects
P5.1 uses communication and information processing skills
P5.2 uses appropriate documentation techniques related to the management of projects
P6.1 identifies the characteristics of quality manufactured products
P6.2 identifies and explains the principles of quality and quality control
P7.1 identifies the impact of one related industry on the social and physical environment
P7.2 identifies the impact of existing, new and emerging technologies of one related industry on society and the environment