Design, Technology & Engineering

You will investigate, design and create products that solve real-world problems within a variety of contexts. You will critically evaluate existing technologies and products, including the impact on societies. Through the investigation, development, planning and evaluating phases, you will apply skills, processes and techniques to develop innovative solutions to design problems of your choice. Digital or physical solutions could involve electronics, robotics, 3D printing prototypes, laser cutting materials, 3D digital models, coding, VR and architectural design.

**SACE Stage 2
20 Credits**

Engage *Skills*	Extend *Knowledge*	Enrich *Experiences*
• Creative thinking - Develop creative ideas • Critical thinking • Develop and work to design brief constraints • Evaluation • Problem solving • Communication of ideas through a variety of media • Planning • Researching • Develop practical skills • Produce a solution	• Design specific language • Design brief constraints • Media used in design (student driven)	• Integrates other discipline such as Mathematics and Science • Design products through the design cycle across personal areas of interest • School based exhibition • Incursions – designers from various discipline • Excursions – University Design Faculties

Assessments/Outcomes

Investigation, Planning, Specialised skill development, Design product, Evaluation, Resource Study

Pathways

Career Pathways: Industrial Design, Product Design, Interior Architecture, Software Engineering, Urban Design, Business, Illustration and Animation, Communication Design. Software Development, Information Technology, Data Analytics, Cybersecurity, Game and Entertainment Design, App Design, IT Manager, Industrial Engineer, Game Developer, Computer Network Engineer, Systems Analyst, Web Designer, Mechanic, Construction, Manufacturing, Project Management, Electronics Engineer, Records Manager, Teacher, Software Engineer, ICT Technician, Policy Analyst, Statistician, Electronics Engineer, Electrician, Electrical Engineer, Audiovisual Technician, Locksmith

Walford