Design and Technology is an area of specialist education in which students are given the opportunity to take part in a number of exciting and rewarding practical activities. The subjects extend the beginnings of a formalised approach to design.

All subjects provide boys and girls with knowledge and skills that can be used in their future careers and in pursuit of recreational activities. Students intending to continue study in Year 11 and 12 can develop the necessary skills, knowledge and understandings that prepare them for study in WACE Courses in Design and Technology education.

**Technical Graphics 10TDTG**

Students will have the opportunity to work through a series of Design Drawing activities covering a range of architectural, graphic illustration and engineering drawing skills. The methods used will include drawing instruments and Computer Aided Drawing (CAD).

The outcomes for this subject include raising the basic skill level of all students in the various techniques of pictorial, orthographic and various technical graphics. Projects in areas such as housing and solar design and engineering design problems involving multi-part assemblies, can be fully covered with the full range of equipment available (including CAD) within our department. The subject provides an excellent basis for further study in Year 11 and 12 for those moving into any Materials Design and Technology Course (Wood/Metal).

**Wood Technology 10TDW**

In this subject students are encouraged to take a significant part in decision making, design and problem solving. Part of the subject is structured to develop expertise in process skills and related knowledge while the remainder of the subject encourages individual development. This subject helps students to become confident and self reliant and teaches them problem solving skills relevant to all Design and Technology subjects. Students studying this subject in semester 2 are guided by individual development. Structured activities are maximised in order to help students gain success but there is still the opportunity for individual project design. Both Woodwork courses in Year 10 are a good introduction to senior school Materials, Design & Technology - Wood as well as being a subject to develop skills to be used for leisure, TAFE or woodwork in later life.
Metals Technology  10TDM
In this subject students develop self confidence through assembly type projects requiring reasonable precision and the manipulative use of specialised equipment, machinery, power tools and hand tools. New skills include use of machinery such as metal lathes, benders and saws. Students independently use an array of skills, processes and techniques such as welding, bending, riveting and sawing in the design and construction of projects. Structured activities are kept to a minimum to allow students to develop their own projects and activities using the design process.

Jewellery Design  10TDJ
Through the elements and principles of design, students will create articles of jewellery that will be developed to a theme. Students will be involved in utilising a range of skills in jewellery making which will include stone setting and casting techniques for the production of jewellery. Students are taught skills such as filing, shaping, soldering, applying textures and finishes to a range of materials including brass, copper, nickel silver, glass and wood to produce rings, bracelets, pendants etc. Students will develop an understanding of the trends and influences in jewellery design.

Photography  10TDP
This subject teaches students to use a variety of camera techniques compact using single lens reflex cameras and digital technologies. Students are encouraged to photograph their subjects using the basic principles of picture taking to create exciting and unique pictures. There is a high practical content in the course and students are ‘challenged’ to experiment with techniques and photographic composition. Computer digital photography is used to assist with student challenges and to manipulate and edit images ready for printing or uploading to the web. Adobe Photoshop software is the preferred software for this work.

The photography studio is used to photograph fashion models using specialist flash equipment. Macro (close-up) photography is taught for the first time using specialist equipment with amazing results. Students are encouraged to present their work using an electronic folio.

Enlargements are made from student digital files for the purpose of display prints and to showcase work at community and industry photographic competitions. There is enormous scope for personal recognition within this unit of study. This unit is an excellent preparation for the Certificate 2 Visual Arts - Photography Course.

Graphic Design - Digital  10TDGD
This subject introduces students to the basics of graphic design using digital technologies. Students use computer design to produce effective well designed documents for both printing and viewing on screen. The emphasis is upon using a creative (logical or artistic) approach to document design.

There are three parts to the subject:
• Basic design theory and practice
• The design of specific types of documents
• Preparing documents and files for printing and viewing

The subject uses Adobe industry software such as Illustrator, Photoshop and InDesign and is excellent preparation for the Design Graphics course in senior school. This subject does not use Microsoft software (see Business Studies and Information Technology - Desktop Publication and Animation).

Robotics  10TDR
In this subject students will design and construct their own electronic chip. They will design and create input and output devices that attach to their chip to perform robotic functions such as moving, sensing, turning and switching. Students will take part in design challenges that cater for students of all abilities. They will design attachments and use sensors to satisfy a design brief such as a simple lighting or security system. Electronic and mechanical engineering principles are taught throughout the course.

Need more Information? Ask the teachers below:
Mr Fragomeni, Mr Noack, Ms Wansbrough, Mr Mylonas (Head of Technology & Enterprise)
Home Economics is a fun, hands-on subject area, encompassing many life skills. Using a technology and health focus students are encouraged to use their own initiative to solve problems while working cooperatively with others using appropriate equipment and managing time effectively. This is done in the contexts of food and health, nutrition, food cuisines and cultures including textiles and fashion.

**Food Technology 10THF**
The Foods course provides students with the opportunity to develop their food preparation skills and learn new and exciting trends in food styling with an international flavour. Through the use of the Technology Process students are encouraged to develop their own meals. They will also learn to work safely, manage time efficiently, and work collaboratively.

**Child Care 10THC**
As part of the Child Care course students will have the opportunity to recognise the importance of providing for a child's physical, emotional, social and intellectual needs. They will investigate the importance of nutrition and identify the role of play, toys and social interaction in the life of a toddler. With emphasis on practical activities the students will have the chance to apply the Technology Process to the development of a number of items suitable for a toddler.

**Cake Decorating 10THD**
This subject deals with specialist techniques aimed at designing and creating interesting and impressive cakes for special occasions. Students have the opportunity to learn and develop skills such as fine piping, butter ice piping for the purpose of producing a Birthday Cake. Cupcake toppers using RTR (plastic icing) and working with chocolate add to the skill set that students experience. There is an opportunity to apply design skills to create a Christmas cake top using RTR to make unique figurines. Yum!

**Textiles 10THT**
In this subject students explore, create and make their own designs for a fashionable item using a variety of colours, fabrics and textures, and craft techniques such as embroidery, appliqué, quilting or beading. Further opportunities will be available for creativity with textiles for personal garments. Students will construct fashionable garments using the Technology Process and up-to-date techniques that save time and energy.

**Need more Information? Ask the teachers below:**
Ms Alexander, Ms Murray, Ms Clarke
Workplace Computers  10TBW
This subject is for those students interested in learning graphic editing techniques for Photoshop and Publisher to produce magazines, newsletters and brochures for an office environment. Student will also use Stop Motion Pro and Movie Maker to develop video editing and animation techniques.

Webpage Design and Animation  10TBA
Students will further develop graphic editing and animation skills to digitally manipulate graphics and create animations. Students will plan the content of webpages utilising basic elements and principles of design. The digital content will be incorporated into a website using the Dreamweaver interface as well as an introduction to HTML coding.

Software Technology  10TBS
This subject is designed to ensure that students develop graphic editing and animation skills. Students will be introduced to the Macromedia Suite eg Fireworks where they will learn to digitally manipulate pictures and use Flash to produce animation text and pictures. This unit provides a sound foundation for those students interested in multimedia.

Need more Information? Ask the teachers below:
Mr N. Smith, Mr Mylonas (Head of Technology & Enterprise)

THE ARTS LEARNING AREA - Year 10, 2014

SHOW YOUR TALENTS AND ENRICH OUR SOCIETY

Visual Arts Studio Painting Advanced Skills (Semesters 1 & 2)
Students are taught more advanced skills and techniques in painting using acrylic, oil and mixed media on canvas. Techniques and styles including Pop Art, Impressionism and Expressionism are explored.

Assessment: Folio and One Major Studio Work.

Visual Arts Studio Printmaking And Textiles Advanced Skills
Students are taught advanced skills in printmaking using lino, etching, and stencil silk-screening techniques. Prints are produced on paper and fabric. Themes studied are Op Art, Contemporary Art and Popular Culture.

Assessment: Folio and One Major Studio Work.

Visual Arts Studio Ceramics And Sculpture Advanced Skills
Students are taught advanced skills in ceramic and sculpture. Techniques such as slab, coil, pinch pot, pottery wheel and glazing are explored. Themes include figure, fantasy, mechanical, architecture and portraiture.

Assessment: Folio and One Major Studio Work.
Visual Arts Studio Drawing Advanced Skills (Semesters 1 & 2)
Students are taught advanced skills and techniques in drawing using a variety of media such as pen, pencil, charcoal, chalk and ink. Themes include figure, still life, mechanical, architecture and portraiture.

Assessment: A3 sketchbook.

Dance
Students study the genre of Contemporary dance, including hip-hop and Bollywood, through a modified version of Unit 1A (Upper school course of study). They explore contemporary dance as a creative art form, learning to look beyond some traditional conventions of dance and appreciating not only what dance looks like but how it is created. Students learn technique and explore choreographic devices, followed by contributing to a whole class routine, which includes their original choreography for performance.

Assessment: Dance journal, research assignment, choreography and performance

Drama
Students will engage in Drama tasks which involve improvisation, self-devised drama and interpretation of extracts of plays and other texts.

Much of their work will be in groups encouraging them to build their teamwork. There will be a written element to their course.

Music
The music course offers students lessons in playing the guitar, keyboard and tuned percussion. Students study a variety of music and learn some basic music skills through listening, creating and performing. For continuing music students this course offers a continuation of their music knowledge learnt in year 9 with out the need for a musical instrument at home. The music course is designed for general students who are not currently learning an instrument through the SIM program.

Music (Instrumental)
Students who elected the instrumental music course in year 9 are expected to continue their study with S.I.M. and the instrumental course. New students to the school who have experience in playing a musical instrument or are currently undergoing lessons are invited to enrol in this course.

Multi Media
Students complete a variety of tasks using advanced skills in such software as Flash, Macromedia, Microsoft Office and Photoshop. Teacher and student designed projects and theme are developed depending upon the skill level and experience of the student.

Media
Students will complete a variety of tasks within the context of Television. They will look at target audience, codes and conventions of film and television, as well as plan, produce and evaluate their own original television series using cameras and computers.

Assessment: folio of work and video of television episode.