

Communications Technology 11

General Curriculum Outcomes

Students will be expected to

1. design, develop, evaluate, and articulate technological solutions
2. evaluate and manage technological systems
3. demonstrate an understanding of the history and evolution of technology, and of its social and cultural implications
4. demonstrate an understanding of current and evolving careers and of the influence of technology on the nature of work
5. demonstrate an understanding of their personal responsibility in determining the future

Specific Curriculum Outcomes

Students will be expected to

Module 1: Fundamentals of Communications Technology (mandatory threading outcomes)

- 1.1 demonstrate an understanding of the history of communication
- 1.2 investigate their strengths related to career options in communications technology
- 1.3 generate a professional portfolio representing a collection of work completed throughout the course using the design process
- 1.4 determine and create solutions to design problems that can persuade or entertain an audience using a variety of electronic communications tools
- 1.5 demonstrate an understanding of the social and environmental impacts of communications technology
- 1.6 demonstrate an understanding of life-cycle analysis of modern communications equipment and processes
- 1.7 demonstrate safe practices when using communications technology tools and equipment

Module 2: Digital Photography (mandatory module)

- 2.1 demonstrate an understanding of the basic operation and care of a digital camera
- 2.2 practice various photographic techniques and photographic composition using a single lens reflex camera and tripod
- 2.3 explore various scene lighting techniques and the effects of it
- 2.4 demonstrate an understanding of image resolution and digital file formats

Choose any three modules from the following six.

Module 3: Technical Design

- 3.1 create three-dimensional designs through digital solid modelling techniques
- 3.2 demonstrate an understanding of orthographic and isometric projection through digital solid modelling techniques
- 3.3 demonstrate an understanding of technical communication language and symbols

Module 4: Graphic Design

- 4.1 demonstrate an understanding of the principles and elements of design
- 4.2 demonstrate effective use of the colour wheel for graphic design
- 4.3 demonstrate an understanding of appropriate uses of typography for graphic design
- 4.4 communicate a message by manipulating images and words using a digital format
- 4.5 use appropriate settings for output of images for web use

Module 5: Web Publishing

- 5.1 plan, design, and create a web interface and navigation system within a website
- 5.2 identify the elements of a web page
- 5.3 identify basic HTML code
- 5.4 create and edit web-appropriate graphics, photographs, and written text

Module 6: Video Production

- 6.1 use a digital video camera and tripod safely and appropriately to capture video
- 6.2 incorporate sound tracks into video
- 6.3 edit video using a digital format
- 6.4 compress a video for electronic distribution

Module 7: Broadcasting

- 7.1 practice using different modalities and applications of broadcasting through various roles within a broadcast studio
- 7.2 identify broadcasting equipment and the various range of broadcast signals
- 7.3 produce a broadcast for a specific purpose
- 7.4 practice journalism story form to broadcast a message

Module 8: Animation

- 8.1 demonstrate an understanding of storyboarding techniques for animation
- 8.2 demonstrate an understanding of the fundamentals of sequencing moving digital images
- 8.3 create an animation that has a purpose and message