NEW ZEALAND INSTITUTES OF TECHNOLOGY AND POLYTECHNIC QUALIFICATIONS IN INFORMATION & COMMUNICATIONS TECHNOLOGY

PRESCRIPTION: AP360 GRAPHICS

AIM OF MODULE:	To introduce students to the principles of creating, manipulating, storing and printing computer graphics.
CREDITS:	5
STUDENT LEARNING HOURS:	50
CONTENT REVISED:	July 2010
PRESCRIPTION EXPIRY DATE:	November 2013

Level and Assessment Schedule

	Highest Skill Level				Suggested Assessment Percentage
TOPICS	R	C	A	P	
1. Basic Principles		*			10
2. Create graphics			*		45
3. Manipulate graphics			*		25
4. Store graphics			*		10
5. Print graphics			*		10
					100

LEARNING OUTCOMES

The student will:

C	1	Demonstrate an understanding of the general principles of graphic design and uses of images.
A	2	Using different tools create a portfolio of computer graphics that are appropriate for their purpose.
A	3	Demonstrate an ability to manipulate and integrate the graphics created.
A	4	Demonstrate an understanding of the different formats for storing of computer graphics.
A	5	Print the graphics created.

CONTENT

1   BASIC PRINCIPLES
➢ Demonstrate knowledge of the different formats used in graphics eg. bitmap, vector
➢ Demonstrate an understanding of the copyright and privacy laws of New Zealand relevant to the image
➢ Plan and design images to be produced using a computer
>   ➢   Design identifies the purpose
>   ➢   Design outlines the images layout, shape and colours used
>   ➢   Design identifies techniques used to create the images

2   CREATE GRAPHICS
➢ Create a portfolio of different types of graphics including:

>   ➢   Manipulate an image using a painting package
>   ➢   An original picture using a draw package
>   ➢   Digitise a graphic
>   ➢   Edit the digitised image
>   ➢   An existing graphic (such as clip art)

3   MANIPULATE GRAPHICS
➢ Create a piece of work that integrates all of the above graphics you have created. Show evidence of at least two of the following:

>   ➢   Inverting
>   ➢   Rotating
>   ➢   Skewing
>   ➢   Resizing
>   ➢   Reshaping
>   ➢   Recolouring
>   ➢   Grouping
>   ➢   Layering

4   STORE GRAPHICS

➢   Demonstrate knowledge of the different formats for storing graphics, including:

  ➢   JPEG
  ➢   Bitmap
  ➢   GIF
  ➢   TIF
  ➢   PNG

5   PRINT GRAPHICS

➢   Demonstrate knowledge of the most appropriate printer settings for individual graphics.

➢   Format is consistent with the plan eg size, orientation.

➢   Quality if the image is consistent with the plan eg resolution, colour.