

Course Outline

Title: DIGITAL IMAGE MANIPULATION

Code: ITECH2102

Formerly: CP530

Faculty / Portfolio: Faculty of Science

Program Level:

	AQF Level of Program					
	5	6	7	8	9	10
Level						
Introductory						
Intermediate			✓			
Advanced						

Pre-requisites: (CP585 or CP586 or ITECH1004)

Co-requisites: Nil

Exclusions: (CP530)

Progress Units: 15

ASCED Code: 020199

Learning Outcomes:

Knowledge:

- K1.** Recognize and explain the different techniques used in digital image manipulation;
- K2.** Interpret and reorganise visual compositions;
- K3.** Account for how composites are created and the role they play in the design of digital creative works.

Skills:

- S1.** Demonstrate skill in digital image manipulation;
- S2.** Demonstrate proficiency in compositing;
- S3.** Demonstrate proficiency in the use of software tools for editing, enhancing, and compositing images;
- S4.** Demonstrate progression in the creative use of image manipulation software;
- S5.** Apply colour management techniques to enhance/alter digital photographs.

Application of knowledge and skills:

- A1.** Develop new compositions from existing images using appropriate software packages;
- A2.** Improve digital images and restore damaged images using appropriate software packages.

Values and Graduate Attributes:

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Values:

- V1. Appreciate ethical behaviour in relation to image manipulation;
- V2. Understand and appreciate the implications of digital ownership in terms of copyright;
- V3. Appreciate the cultural implications of colour;
- V4. Transfer skills to image manipulation software other than the packages used in this course.

Graduate Attributes:

Attribute	Brief Description	Focus
Continuous Learning	Show resourcefulness and self-motivation in relation to discovery of knowledge regarding the way technologies are used to enhance and alter digital images	High
Self Reliance	Take full responsibility for self-management in terms of further development of skills associated with creative digital manipulations	High
Engaged Citizenship	Employ improved compositional and image manipulation skills in a range of different contexts.	Low
Social Responsibility	Conduct ones self in an ethical and moral way that ensures no individual or organisation is harmed by any of the decisions associated with the design and development of digital creative designs. This includes analysis and examination of copyright.	Medium

Content:

Topics may include:

- blending & channel manipulation;
- collages, montages;
- colour theory, correction, and management;
- composition & compositing - design theory;
- copyright and ethics;
- cultural implications of colour;
- current digital technology & software ;
- creating filters, patterns, & textures;
- digital painting;
- effects using blend modes & filters;
- masks and layers;
- perspectives;
- retouching;
- text manipulations;
- vector drawing & manipulation.

Assessment:

Assessment for this course will be based on a number of tasks including weekly portfolio presentations, design documentation, practical demonstrations of image manipulation skills, and an end of semester examination covering theoretical aspects of the course.

Learning Outcomes Assessed	Assessment Task	Assessment Type	Weighting
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K1, K2, K3, S1, S2, S3, S4, A1, A2	Presentations of weekly portfolio entries	Portfolio	10%-20%
K1, K2, K3, S1, S2, S3, S4, S5, A1, A2	Design & Creation of a Creative Work	Assignment	20% - 40%
K1, K2, K3	Theoretical aspects of image manipulation	Examination(s)	50% - 60%

Adopted Reference Style:

APA

Presentation of Academic Work:

<https://federation.edu.au/students/assistance-support-and-services/academic-support/general-guide-for-the-presentation-of-academic-work>