

## UNIVERSITI TEKNOLOGI MARA

## GDI686: SCIENTIFIC ILLUSTRATION

Course Name (English)	SCIENTIFIC ILLUSTRATION APPROVED					
Course Code	GDI686					
MQF Credit	t 3					
Course Description	This course is aimed to introduce students to a comprehensive and inspiration methodology in learning science based and architectural illustration. This includes establishing the foundation of drawing skills into gradually introduced to complex illustration concept and in-depth study in specific subject matter. The course covers the research of subjects and morphology. Fundamentals of scientific matter such as plant and vertebrate structure also are covered, along with plenty of life-drawing practice to capture gesture and movement in finished pieces. Students are encouraged to progress from merely pictorial to more descriptive, conceptual illustration projects. In addition, students allowed to study specific subject matter in greater depth through botanical, zoological using advanced graphic illustrations and collaborate with the science writers whom ever available.					
Transferable Skills	Creative, imaginative and innovative-Ability to observe, structuring and curating illustrative skills style and techniques					
Teaching Methodologies	Lectures, Studio, Demonstrations, Field Trip, Practical Classes, Tutorial, Discussion, Presentation					
CLO	<ul> <li>CLO1 Explore and understanding various illustration techniques in the process from generating ideas from critical observation, visual interpretation and drawing skills techniques. (C2)</li> <li>CLO2 Incorporate the element of design and drawing style on the subject in compositing, interpreting and improving thinking skills for science based (scientific and zoological) illustration (P3)</li> <li>CLO3 Develop and transform creative and expressionistic dimension of science and arts via illustration with detailed graphical information, digital and produce a scientific illustration project and exhibit (A3)</li> </ul>					
Pre-Requisite Courses	No course recommendations					
1.1) o Definition of sc 1.2) o Study in creatin 1.3) o Discuss the co <b>2. • Lesson 02 – Fie</b>	roduction to Natural Science illustration (Week 1) cience and art illustration. ng accurate and dynamic scientific illustration. ntribution of graphic illustrators to science world. Id Sketching (Week 2 - 3)					
<ul> <li>2.1) o Sharpens visual perception, drawing and design skills through extensive sketching process.</li> <li>2.2) Introduction to morphology</li> <li>2.3) o Field trips subject matters included: Forest, Ocean shore, Grassland, Other environments provides varied subject matter to draw.</li> </ul>						
	prmation Graphics (Week 4) principles of graphic and illustration:					
4.1) o Examine and e 4.2) o Emphasis on k	<b>Eural Science Illustration in Colour (Week 5 - 6)</b> explore the mixed media. even observational skills. sign communication of accurate information through colour illustration.					

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5. • Lesson 07 – Botanical Illustration (Week 7 - 9)

5.1) o Introduction to botany and application of illustration in creating botanical images.
5.2) o Basic study on plant morphology, dissection studies and plant environments.

5.3) o Subject matters suggested as reference:

5.4) o Herb-aria

5.5) o Live specimens

5.6) o Field drawings

## 6. • Lesson 08 – Zoological Illustration (Week 10 - 12)

6.1) o Explore the animal kingdom through selected taxonomic groups via discussion.

6.2) o Examine the drawing techniques for representing dimension, texture and detail of various type of animals.

6.3) o Produce several zoological illustrations based from discussions such as form and functions, animal behaviour or enviromental catalogues.

7. Lesson 09 : Biological Illustration

7.1) Introduction to Biological Illustration

8. • Lesson 10 – Applied Techniques in Natural Science Illustration (Week 13-14)

8.1) o Preparation of artwork for display:8.2) ? Integration of images with text.8.3) ? Book and exhibit sizes for exhibit.

8.4) o Emphasis on conceptual illustration:8.5) ? How to convey an idea, process, sequence of events, multi topics through visual and presentation means.

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of								
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO				
	Assignment	Students requires to collect, observe, study, analyze and visually illustrate multitude species natural science while adding accurate and dynamic scientific illustration.	30%	CLO1				
	Assignment	Student requires to incorporate various element of design in detailing, structuring and compositing various selected botanical and zoological taxonomic dimension, texture and details of selected subject.	30%	CLO2				
	Final Project	Final project and exhibition that emphasis on idea development, styles, concept, research, accurate drawing skills and techniques and execution of project for review and critiques. Students requires to organize, print and digitized artwork for assessment requirement.	40%	CLO3				
Reading List Recommended Linutary Debart 2007 The Creat Naturalists Thereas & Linde								
-	Text Paul J. Zelanski Professor Emeritus, Mary Pat Fisher							
		The Art of Seeing, 8th Edition Ed., Pearson Timothy O'Donnell 2011, Sketchbook: Conceptual Drawings from the World's Most Influential Designers, Rockport Publishers						
		Christopher Hart 2008, <i>The Cartoonist's Big Boo</i> Animals, Watson-Guptill	ok of Dra	awing				
		<ul> <li>David Boys 2003, Draw and Sketch Animals: Sketch with Confidence in 6 Steps or Less, North Light Books</li> <li>Brian Curtis 2009, Drawing from Observation: An Introduction to Perceptual Drawing, McGraw-Hill Humanities</li> </ul>						
			Gallwey 1995, An Introduction to Drawing Animals: tomy, Movement, Perspective, Character, Composition, k Sales vanni Civardi 2002, Drawing Scenery: Landscapes, scapes and Buildings (The Art of Drawing), Search Press					
		Giovanni Civardi 2002, Drawing Scenery: Lands Seascapes and Buildings (The Art of Drawing),						
		Bente Starcke King 2004, <i>Beautiful Botanicals</i> , Books	North Lig	ght				
		Stevens, Margaret 2005, <i>The Art of Botanical Pa</i> of Botanical Painting	inting, T	he Art				
		Rosie Martin, Meriel Thurstan 2008, <i>Botanical Illustration Course: With the Eden Project</i> , Batsford						
		Samara, Timothy 2012, <i>Drawing for Graphic Des</i> Publishers	sign, Roo	ckport				
Article/Paper List	Recommended Article/Paper Resources							
Other References	This Course does not have any other resources							