Peicai Secondary School Subject Overview for Semester 1 2023 Design & Technology | Secondary 1 | Normal (Academic)

1. Assessment Mode

Students will be assessed through two Design Projects that requires demonstration of the learning outcomes across the content sections of Design and Technology. This assessment mode comprises the following components; namely a design journal, mock-ups and prototypes which will be carried out over a few weeks during curriculum time.

2. Assessment Weightage

Components	WA1 (15%)	WA2 (15%)	End of Module (70%)
Deliverables	Key Tag –	Handphone stand-	Handphone stand-
	Design: Process	Design: Rendered	Design & Technology: Design mock-
	(Ideation)	3D presentation	up, light circuit, and final prototype
		sketch	
Work	Term 1	Term 2	Term 2
Timeline	Week 4-6	Week 2-4	Week 6-9
Submission	Week 6	Week 4	Week 9
Deadline			

3. Weekly Work Schedule

	Term 1 [3 Jan – 10 Mar]						
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment				
Week 1	Start Smart Program		-				
[2 Jan – 6 Jan]							
Week 2 [9 Jan –13 Jan]	Start Smart Program		-				
Week 3 [16 Jan – 20 Jan] 18-Jan (Wed) timetable replaced with even week Monday timetable CNY celebrations, 20 Jan (Fri)	 Class Admin. Overview of D&T. Workshop safety briefing: Start of Project #1 [Key Tag]: Design Process Model (5 stages) Design need, design brief and design specifications 	 Stating of design need, design brief and design specifications 	-				
Week 4 [23 Jan – 27 Jan] CNY, 23 Jan (Mon) & 24 Jan (Tue)	 Project #1 [Key Tag]: Random lines & curves ideation technique Generating of ideas 	Ideas #1 - #8					
Week 5 [30 Jan – 3 Feb]	 Project #1 [Key Tag]: Random lines & curves ideation technique Generating of ideas 	Ideas #9 – #16	WA1 [Ideation]				
Week 6 [6 Feb – 10 Feb]	 Project #1 [Key Tag]: 3D freehand sketch (chosen idea) Rendering of freehand sketch (using colour pencils*) * Students to bring along their colour pencils 	 3D sketch of chosen idea Rendered 3D sketch of chosen idea 					

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Term 1 [3 Jan – 10 Mar]						
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment			
Week 7 [13 Feb – 17 Feb]	 Project #1 [Key Tag]: Making of mock-up Making of prototype* * Students to bring along their aprons 	Mock-upPrototyping	-			
Week 8 [20 Feb – 24 Feb]	 Project #1 [Key Tag]: Making of prototype* Submission of completed prototype * Students to bring along their aprons 	Prototyping	-			
Week 9 [27 Feb – 3 Mar]	 Start of Project #2 [Handphone Stand]: Design Process Model (5 stages) Design need, design brief and design specifications 3D freehand sketch (existing product) 	 Stating of design need, design brief and design specifications 3D sketch of existing products 	-			
Week 10 [6 Mar – 10 Mar]	 Project #2 [Handphone Stand]: 3D freehand sketch (existing product) Shape borrowing ideation technique Generating of ideas 	 3D sketch of existing products Ideas #1 - #5 	-			

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Term 2 [20 Mar – 26 May]					
Week	Chapter/Topic/Skill/Area		Assignment/ Homework	Assessment	
Week 1 [20 Mar – 24 Mar]	 Project #2 [Handphone Stand]: Generating of ideas Development of chosen idea (with base) 	•	Ideas #6 – #10 Development of chosen idea	-	
Week 2 [27 Mar – 31 Mar]	 Project #2 [Handphone Stand]: 3D presentation sketch Rendering of 3D presentation sketch (using colour pencils*) * Students to bring along their colour pencils 	•	Rendered 3D presentation sketch		
Week 3 [3 Apr – 7 Apr] Good Friday, 7 Apr	 Project #2 [Handphone Stand]: 3D presentation sketch Rendering of 3D presentation sketch (using colour pencils*) Basic Electronics & Soldering * Students to bring along their colour pencils 	•	Rendered 3D presentation sketch Light circuit	WA2 [rendered 3D presentation sketch]	
Week 4 [10 Apr – 14 Apr]	 Project #2 [Handphone Stand]: Soldering of light circuit* Making of mock-up 	•	Light circuit Mock-up		
Week 5 [17 Apr – 21 Apr]	 Students to bring along their aprons Project #2 [Handphone Stand]: Soldering of light circuit* Making of mock-up * Students to bring along their aprons 	•	Light circuit Mock-up		
Week 6 [24 Apr – 28 Apr] Hari Raya Puasa, 24 Apr (Mon)	 Project #2 [Handphone Stand]: Making of prototype* * Students to bring along their aprons 	•	Prototyping		
Week 7 [1 May – 5 May] Labour Day,1May (Mon)	 Project #2 [Handphone Stand]: Making of prototype* * Students to bring along their aprons 	•	Prototyping	End of Module [Mock-up,	
Week 8 [8 May – 12 May]	 Project #2 [Handphone Stand]: Making of prototype* Submission of completed prototype * Students to bring along their aprons 	•	Prototyping	Light Circuit, Final Prototype]	
Week 9 [15 May –19 May]	 Project #2 [Handphone Stand]: Making of prototype* Submission of completed prototype * Students to bring along their aprons 	•	Prototyping		
Week 10 [22 May –26 May]	Mini- Showcase		-	-	

*This subject overview is tentative and is subject to changes.