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

Semester 1			
Term 1 [3 Jan – 10 Mar]			
Week	**Chapter/Topic/Skill/Area**	**Assignment/ Homework**	**Weighted Assessment**
Week 1 [2 Jan – 6 Jan]	**Start Smart Program**		-
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]: o Design Process Model (5 stages) o 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]: o Random lines & curves ideation technique o Generating of ideas	• Ideas #1 - #8	WA1 (15%) [Ideas #1-#16 assignment]
Week 5 [30 Jan – 3 Feb]	• Project #1 [Key Tag]: o Random lines & curves ideation technique o Generating of ideas	• Ideas #9 – #16	
Week 6 [6 Feb – 10 Feb]	• Project #1 [Key Tag]: o 3D freehand sketch (chosen idea) o 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	Note: *WA1 (15%) submission deadline for ideation #1-#16 assignment*
Week 7 [13 Feb – 17 Feb]	• Project #1 [Key Tag]: o Making of mock-up o Making of prototype* ** Students to bring along their aprons*	• Mock-up • Prototyping	-
Week 8 [20 Feb – 24 Feb]	• Project #1 [Key Tag]: o Making of prototype* o Submission of completed prototype ** Students to bring along their aprons*	• Prototyping	-

Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Weighted Assessment
Week 9 [27 Feb – 3 Mar]	• Start of Project #2 [Handphone Stand]: o Design Process Model (5 stages) o Design need, design brief and design specifications o 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]: o 3D freehand sketch (existing product) o Shape borrowing ideation technique o Generating of ideas	• 3D sketch of existing products • Ideas #1 - #5	-
Term 2 [20 Mar – 26 May]			
Week	**Chapter/Topic/Skill/Area**	**Assignment/ Homework**	**Weighted Assessment**
Week 1 [20 Mar – 24 Mar]	• Project #2 [Handphone Stand]: o Generating of ideas o Development of chosen idea (with base)	• Ideas #6 – #10 • Development of chosen idea	-
Week 2 [27 Mar – 31 Mar]	• Project #2 [Handphone Stand]: o 3D presentation sketch o Rendering of 3D presentation sketch (using colour pencils*) * Students to bring along their colour pencils	• Rendered 3D presentation sketch	WA2 (15%) [rendered 3D presentation sketch assignment]
Week 3 [3 Apr – 7 Apr] *Good Friday, 7 Apr*	o Project #2 [Handphone Stand]: o 3D presentation sketch o Rendering of 3D presentation sketch (using colour pencils*) o Basic Electronics & Soldering * Students to bring along their colour pencils	• Rendered 3D presentation sketch • Light circuit	
Week 4 [10 Apr – 14 Apr]	• Project #2 [Handphone Stand]: o Soldering of light circuit* o Making of mock-up * Students to bring along their aprons	• Light circuit • Mock-up	Note: *WA2 (15%) submission deadline for rendered 3D presentation sketch assignment*
Week 5 [17 Apr – 21 Apr]	• Project #2 [Handphone Stand]: o Soldering of light circuit* o 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]: o Making of prototype* * Students to bring along their aprons	• Prototyping	End of Module (70%) [Mock-up, Light Circuit, Final Prototype]
Week 7 [1 May – 5 May] *Labour Day, 1 May (Mon)*	• Project #2 [Handphone Stand]: o Making of prototype* * Students to bring along their aprons	• Prototyping	

Week 8
[8 May – 12 May]
	• Project #2 [Handphone Stand]:
	  o Making of prototype*
	  o Submission of completed prototype
	
	* Students to bring along their aprons
		• Prototyping	

Week 9
[15 May – 19 May]
	• Project #2 [Handphone Stand]:
	  o Making of prototype*
	  o Submission of completed prototype
	
	* Students to bring along their aprons
		• Prototyping	<u>Note:</u>
			End of Module (70%) submission deadline for mock-up, light circuit, and final prototype

Week 10 [22 May – 26 May]	**Enrichment Activities**	-	-

This subject overview is tentative and is subject to changes.