Peicai Secondary School Subject Overview for Semester 1 2023 Design & Technology | Secondary 3 | Normal (Academic)

1. Assessment Mode

Students will be assessed through various assessment modes such as written paper and a design project to demonstrate the learning of Design and Technology. This assessment mode for the design project comprises the following components; namely a design journal, prototype and mini presentation boards (PB) which will be carried out over a few weeks during curriculum time.

2. Assessment Weightage

	- in the same of t					
Components	WA1 (15%)	WA2 (15%)				
Deliverables	Written Paper	Design Project : Design Journal, prototype and Mini PB				
		and with PD				
Work	Not Applicable	Term 1: Week 5-10				
Timeline		Term 2: Week 1- 6				
Submission	Not Applicable	Week 6				
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	Start Smart Program				
[9 Jan -13 Jan]	_				
Week 3	o Class Admin.	Design Journal	-		
[16 Jan – 20	 Overview of D&T. 				
Jan]	 Workshop safety briefing: 				
18-Jan (Wed)	Start of Project #1 [NIGHT LIGHT]:				
timetable replaced with even week	 Design Process Model (5 stages) 				
Monday timetable	 Theme Analysis of Night Light 				
CNY celebrations.	Technique Learnt:				
20 Jan (Fri)	 Mindmap- TB Pg 19 				
	 Analysis of Design 				
	Opportunities- TB pg 21				
	•				
Week 4	 Overall Project Planning 	Design Journal	-		
[23 Jan – 27	 Using Gantt Chart (TB Chp 1 pg 10) 				
Jan]	 User Profile (Senior Citizen, Child,Pet) 				
	 Needs (PIES) Analysis (TB Chp 2 pg 				
CNY, 23 Jan (Mon) & 24 Jan (Tue)	23)				
Week 5	 Product Analysis of existing Products 	Design Journal	WA 2		
[30 Jan – 3	and User Research	o Product	[Design		
Feb]	o Techniques Learnt :	Analysis	Journal ,		
UDI Davilla 4.5.1	Using ACCESSFM (TB Chp 2 pg 25)	 Questionnaire 	prototype &		
HBL Day #1, 1 Feb (Wed)	o Using Questionnaire (TB Chp 2 pg 28)	results	Mini		
()			Presentation		
			Board]		

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Term 1 [3 Jan – 10 Mar]				
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment	
Week 6 [6 Feb – 10 Feb]	 Technology : Electronics Soldering of Night Light Circuit * Students to bring along their aprons 	Design Journal - Electronics	WA 2 [Design	
Week 7 [13 Feb – 17 Feb] HBL Day #2, 15 Feb (Wed)	 Formulating Design Brief and Specs Technique Learnt (5W1H) (Tb Chp 2 pg 31 & 32) 	Design Journal- Design Brief and Specifications	Journal, prototype & Mini Presentation Board]	
Week 8 [20 Feb – 24 Feb]	 Shape Borrowing Ideation Techniques Learnt (Shape Borrowing/SCAMPER) Decision Matrix 	Design Journal- Shape Borrowing Ideas Decision Matrix		
Week 9 [27 Feb – 3 Mar] HBL Day #3, 1 Mar (Wed)	 Written Assessment Mock-up of Chosen Design Idea 	Design Journal- Mock-Up & Evaluation	WA 1 Written Assessment Design Process and Electronics	
Week 10 [6 Mar – 10	 Start of Prototyping 		-	
Mar]	* Students to bring along their aprons			

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Term 2 [20 Mar – 26 May]					
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment		
Week 1 [20 Mar – 24 Mar] HBL Day #4, 22 Mar (Wed)	 Prototyping of Night Light Design 	Design Journal			
Week 2 [27 Mar – 31 Mar]	 Prototyping of Night Light Design 	Design Journal			
Week 3 [3 Apr – 7 Apr] HBL Day #5, 5 Apr (Wed) Good Friday, 7 Apr	 Prototyping of Night Light Design 	Design Journal	-		
Week 4 [10 Apr – 14 Apr]	 Prototyping of Night Light Design & User Testing and Evaluation of Completed Design based on Design Brief and Specifications Submission Deadline for Prototype 	Design Journal	WA 2 [Design		
Week 5 [17 Apr – 21 Apr]	 User Testing and Evaluation of Completed Design based on Design Brief and Specifications 	Design Journal	Journal & Mini Presentation		
HBL Day #6, 19 Apr (Wed)	 3D Rendering of Final Completed Design with Mini PB (Presentation Boards) 		Board]		
Week 6 [24 Apr – 28 Apr]	 Consolidation of Design Journal Work Updating and refinements made to documentation in journal 	Design Journal			
Hari Raya Puasa, 24 Apr (Mon)	sheets Submission				
Week 7 [1 May – 5 May] Labour Day, 1 May (Mon) HBL Day #7, 3 May(Wed)	 Design Communication Skills Project planning and documentation (Gantt Chart and Flowchart) 		-		
Week 8 [8 May – 12 May]	 Design Communication Skills (How to do and document research in detail) Techniques in Primary/Secondary Research 		-		
Week 9 [15 May – 19 May] HBL Day #8, 17 May (Wed)	 Design Communication Skills (How to ideate and sketch design ideas) Ideation technique of Random Lines, Shape Borrowing and SCAMPER to be 		-		
Week 10 [22 May – 26 May]	In class enrichment activities		-		

^{*}This subject overview is tentative and is subject to changes.