Peicai Secondary School Subject Overview for Semester 1 2023 Design & Technology | Secondary 3 | Express

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 state of						
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	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 AssessmentMock-up of Chosen Design Idea	Design Journal- Mock-Up & Evaluation	WA 1 Written Assessment Design Process and Electronics			
Week 10 [6 Mar – 10 Mar]	Start of Prototyping* 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)	0	Prototyping of Night Light Design	Design Journal			
Week 2 [27 Mar – 31 Mar]	0	Prototyping of Night Light Design	Design Journal			
Week 3 [3 Apr – 7 Apr] HBL Day #5, 5 Apr (Wed) Good Friday, 7 Apr	0	Prototyping of Night Light Design	Design Journal			
Week 4 [10 Apr – 14 Apr]	0	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	0	User Testing and Evaluation of	Design Journal	Journal &		
[17 Apr — 21 Apr] HBL Day #6, 19 Apr (Wed)	0	Completed Design based on Design Brief and Specifications 3D Rendering of Final Completed Design with Mini PB (Presentation		Mini Presentation Board]		
		Boards)	<u> </u>	_		
Week 6 [24 Apr – 28 Apr]	0	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)	0	Design Communication Skills Project planning and documentation (Gantt Chart and Flowchart)		-		
Week 8 [8 May – 12 May]	0	Design Communication Skills (How to do and document research in detail) Techniques in Primary/Secondary Research		-		
Week 9 [15 May – 19 May]	0	Design Communication Skills (How to ideate and sketch design ideas) Ideation technique of Random Lines,		-		
HBL Day #8, 17 May (Wed)		Shape Borrowing and SCAMPER to be covered				
Week 10 [22 May – 26 May]		In class enrichment activities		-		

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