1. Assessment Mode

Students will be assessed through a written assessment and a Design Project (coursework) that requires demonstration of the learning outcomes across the content sections of Design and Technology. This assessment mode of the Design project (coursework) comprises the following components; namely a design journal, mock-ups, prototype and presentation board which will be carried out over a few weeks during curriculum time.

2. Assessment Weightage

Components	WA3 (15%)	End of Year (EOY) (55%)	
		Coursework (60%)	Written Paper (40%)
Deliverables	Written (Design Process and Mechanisms)	1-Design Journal 2-Presentation Board (Design Situation and Contextual Use of Product) 3-Mock Up 4-Final Prototype	80 marks Q1 (26 marks) Application of Design Q2-Q3 (54 marks) Application of Technology - Electronics,Mechanisms and Structures
Work Timeline	Not Applicable	Term 3 Week 1 - Term 4 Week 2	
Submission Deadline	*Written Paper (Wk 6/ 8- TBC)	Term 4 Week 2	

3. Weekly Work Schedule

Term 3 [26 June – 01 Sept 2023]				
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment	
Week 1 [26 Jun – 30 Jun] Hari Raya Haji, 29 Jun	 Class Admin. Subject Overview for Semester 2 Recap on design process	Worksheet- design process	EOY (Design Journal)	
	 Introduction of Design & Make Project [Glue Gun Holder]: through Task sheet (with Rubrics) Design Process Model (5 stages) Gantt Chart Design need, design brief and design specifications * Students to bring along their iPad * Students to bring along their iPad 	 Gantt Chart Photo Analysis (5W1H) PIES analysis Stating of design need, design brief and design specifications 		
Week 2 [3 Jul – 7 Jul] Youth Day, 3 Jul	OBS Camp			

	Term 3 [26 June – 01 Sept 2023]			
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment	
Week 3 [10 Jul – 14 Jul] HBL	 Recap Design process & mechanism Introduction to Topic on Structures * Students to bring along their iPad 	Worksheet- Structures Study Guide Chp 7-Structures		
	 Project [Glue Gun Holder]: Research on Glue Gun Holder stands Generating of ideas using Shape borrowing and SCAMPER ideation techniques 	Existing products of Glue Gun Holders Study Guide Chp 3 Generating and Developing Ideas Ideas #1-2 (using Shape borrowing)	Coursework End-of-Year (Design Journal)	
Week 4 [17 Jul – 21 Jul]	Project [Glue Gun Holder]: o Research on Glue Gun Holder stands o Generating of ideas using Shape borrowing and SCAMPER ideation techniques * Students to bring along their iPad	Ideas #3-4 (using SCAMPER technique)	Coursework End-of-Year (Design Journal)	
Week 5 [24 Jul – 28 Jul]	Project [Glue Gun Holder]: Decision Matrix (Idea Selection) Development of chosen idea Working out details for prototyping * Students to bring along their iPad	 Work out dimensions of final idea Materials list 	Coursework End-of-Year (Design Journal) [Ideas #1-#4 assignment]	
Week 6 [31 Jul – 4 Aug] WA3	Project [Glue Gun Holder]: o Building mock-ups for designing * Students to bring along their aprons	Mock-ups making and evaluation		

Term 3 [26	Term 3 [26 June – 01 Sept 2023]			
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment	
Week 7 [7 Aug – 11 Aug]	 Project [Glue Gun Holder]: Building mock-ups for designing Planning the steps for prototyping * Students to bring along their iPad 	 Mock-ups making and evaluation. Planning prototyping steps 		
Week 8 [14 Aug — 18 Aug] National Day Celebration, 8 Aug National Day, 9 Aug National Day Sch Holiday, 10 Aug WA3	 Project [Glue Gun Holder]: Making of prototype* * Students to bring along their aprons WEIGHTED ASSESSMENT 3 Topics tested: Design Process and Mechanisms 	Prototyping	WA3	
Week 9 [21 Aug – 25 Aug]	 Project [Glue Gun Holder]: Making of prototype* * Students to bring along their aprons 	Prototyping	Coursework	
Week 10 [28 Aug — 1 Sep] Teachers' Day Celebration, 31 Aug Teachers' Day, 1 Sep	 Project [Glue Gun Holder]: Making of prototype* Prototype Evaluation * Students to bring along their aprons 	 Prototyping Testing of Prototype 	End-of-Year (Design Journal) [mock-up, final prototype]	

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

Term 4 [11 Sep – 27 Oct]			
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment
Week 1 [11 Sep – 15 Sep]	Project [Glue Gun Holder]: 3D sketch and rendering of developed idea (using iPad Sketchbook *) * Students to bring along their iPad	Presentation Board 1 (Problem situation, Design Brief and Specifications) with Rendered sketch of developed idea	Coursework End-of-Year (Design Journal) [Rendered sketch of
Week 2 [18 Sep – 22 Sep]	Project [Glue Gun Holder]: 3D sketch and rendering of developed idea (using iPad Sketchbook *) * Students to bring along their iPad	Presentation Board 2 (Contextual Use of Design with Use in Environment)	developed idea] 2 Presentation Boards (online)
Week 3 [25 Sep – 29 Sep]	Revision of topics for Exam Design Process & Technologies in D&T (Electronics, Mechanisms and Structures)	Lesson activity- Revision Guide	
Week 4 [2 Oct – 6 Oct]	END OF YEAR EXAMS		
Week 5 [9 Oct – 13 Oct]	END OF YEAR EXAMS		
Week 6 [16 Oct – 20 Oct]	Error Analysis Week/ Script Check		

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Assessment Rubrics for Coursework

Express

Source: https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2022syllabus/7059 y22 sy.pdf