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 | 60 marks Q1 (24 marks) Application of Design Q2-Q3 (36 marks) Application of Technology - Electronics and Mechanisms |
| 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 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 | Gantt Chart Photo Analysis (5W1H) PIES analysis Stating of design need, design brief and design specifications | EOY (Design Journal) |
| 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] | Recap Design process & mechanism * Students to bring along their iPad | • Revision Guide | |
| | 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 | Coursework End-of-Year (Design Journal) |
| | | Ideas #1-2 (using Shape borrowing) | |
| 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 | Ideas #3-4 (using SCAMPER technique) | Coursework End-of-Year (Design Journal) |
| Week 5 [24 Jul – 28 Jul] | * Students to bring along their iPad • 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 | |
| VVAS | Students to bring along their aprons | | |

| 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 | PrototypingTesting 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/ | Assessment |
|)A/ 1 4 | | Homework | |
| 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 (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 | | |

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

Assessment Rubrics for Coursework

Normal(Academic)

Source:

https://www.seab.gov.sg/docs/default-source/nationalexaminations/syllabus/nlevel/2023syllabus/7055 y23 sy.pdf