Week Chapter/Topic/Skill/Area Assignment/ Homework Assessme Homework Week 1 [2 Jan - 6 Jan] Start Smart Program - Week 2 [9 Jan - 13 Jan] Start Smart Program - Week 3 [16 Jan - 20 Jan] • Class Admin. • National Exam coursework syllabus briefing • Project With Monday timetable - Gantt chart - CW celebrations, 20 Jan (Fri) • Start of Coursework • Overall Project Planning • Analysis of theme - Mindmap - Week 4 [23 Jan - 27 Jan] • Coursework • Analysis of theme - Mindmap - Week 4 [23 Jan - 27 Jan] • Coursework • Coursework • Coursework • Coursework • Coursework • Analysis of theme • Needs Analysis - Identification of problem situations - Week 5 [30 Jan - 3 Feb] • Coursework • Theory revision on Mechanisms • Continuation of coursework assignments - Identification of problem situations - Week 6 [6 Feb - 10 Feb] • Coursework • Target User • Existing Products • Survey and Survey Results, • Survey and Survey results summary - Existing products analysis • Survey and survey results summary Week 7 [13 Feb / Wed] • Coursework • Design Specifications - User & Environment analysis • Design Specifications - User & Environment analysis • Sutarg of design brief • Identify design considerations & constraints • Stating of design </th <th>Term 1 [3 Jan – 10 M</th> <th>ar]</th> <th></th> <th></th>	Term 1 [3 Jan – 10 M	ar]		
[2 Jan - 6 Jan] Start Smart Program - [9 Jan - 13 Jan] - - Week 2 [9 Jan - 13 Jan] - Week 3 - Class Admin. - [16 Jan - 20 Jan] - National Exam coursework syllabus briefing - JB-Jon (Wed) timetable replaced with Mondoy timetable - Release of Coursework QP - CWy celebrations, 20 Jan (Fri) - Start of Coursework - Mood board CWy celebrations, 20 Jan (Trei) - Start of Coursework - Mindmap - CWy celebrations, 20 Jan - 27 Jan] - Coursework - Mindmap - CWy 23 Jan (Tue) - Coursework - Identification of problem - Week 5 - Coursework - Identification of problem - BIL A, 1 Feb (Wed) - HBL assignment - - - - · HBL A, 1 Feb (Wed) - Coursework - Existing Products - - - · HBL A, 1 Feb (Wed) - Coursework - Exis	Week	Chapter/Topic/Skill/Area	_	Assessment
Week 2 [9] an - 13 Jan] Start Smart Program - Week 3 (16 Jan - 20 Jan] • Class Admin. 	Week 1	Start Smart Program		-
[9 Jan - 13 Jan] - Week 3 - [16 Jan - 20 Jan] - J.3-Jon (Wed) timetable - replaced with Monday - timetable - CWr celebrations, 20 Jan (Pri) - Start of Coursework QP - - - Week 4 - CVr celebrations, 20 Jan (Pri) - Analysis of theme - Week 5 - CVr, 23 Jan (Mon) & 24 Jan (Tue) - Week 5 - Coursework - Needs Analysis - - Needs Analysis - Needs Continuation of coursework assignments - Theory revision on Mechanisms - Coursework - Research on Chos	[2 Jan – 6 Jan]			
Week 3 • Class Admin. - Gantt chart - [16 Jan - 20 Jan] • National Exam coursework syllabus briefing - Theme definition, - 18-Jan (Wed) timetable replaced with Monday timetable • Release of Coursework QP - Mood board - CWY celebrations, 20 Jan (Fri) • Start of Coursework • Overall Project Planning • Analysis of theme - - Mindmap - (23 Jan - 27 Jan] • Coursework • Overall Project Planning • Analysis of theme - Identification of problem - (23 Jan - 27 Jan] • Coursework • Needs Analysis - - Identification of problem - (23 Jan - 27 Jan] • Coursework • Needs Analysis - - Identification of problem - (23 Jan - 17 Jan] • Coursework • Needs Analysis • Coursework • Needs Analysis - Identification of problem - (30 Jan - 3 Feb] • Coursework • Theory revision on Mechanisms • Continuation of coursework assignments - Identification of problem - (16 Feb - 10 Feb] • Coursework • Survey and Survey Results, - Existing products - Environment analysis - (13 Feb - 17 Feb] • Coursework • Environment an15 Feb (Wed)	Week 2	Start Smart Program		-
[16 Jan - 20 Jan] National Exam coursework syllabus briefing Release of Coursework QP Project theme analysis Theme definition, Mod board Mod boar				
20 Jan (Fri) • Overall Project Planning • Analysis of theme • Mindmap Week 4 [23 Jan – 27 Jan] • Analysis of theme • Needs Analysis • Needs Analysis • Mindmap CW, 23 Jan (Mon) & 24 Jan (Tue) • Coursework • Needs Analysis • Meds Analysis Week 5 [30 Jan – 3 Feb] • Coursework • Needs Analysis • Identification of problem situations HBL A, 1 Feb (Wed) • Coursework • Selection of Chosen Situation • Identification of problem situations HBL A, 1 Feb (Wed) • HBL assignment • Theory revision on Mechanisms • Continuation of coursework assignments • Decision matrix for chosen problem situation Week 6 [6 Feb – 10 Feb] • Coursework • Existing Products • Survey and Survey Results, • Survey and survey results summary Week 7 [13 Feb – 17 Feb] • Coursework • Environment • Target User • Environment • Target User • Environment • Design Brief • Design Brief • Design Specifications • Obesign Specifications • Stating of design brief • Identify design constraints • Stating	[16 Jan – 20 Jan] 18-Jan (Wed) timetable replaced with Monday	 National Exam coursework syllabus briefing Release of Coursework QP 	- Theme definition,	-
[23 Jan – 27 Jan] Analysis of theme Needs Analysis Needs Analysis Identification of problem situations (CNV, 23 Jan (Mon) & 24 Jan (Tue) Needs Analysis Needs Analysis Identification of problem situations Identification of problem situations Needs Analysis Selection of Chosen Situation Needs Analysis Selection of Chosen Situation HBL A, 1 Feb (Wed) HBL A, 1 Feb (Wed) HBL assignment Theory revision on Mechanisms Continuation of coursework assignments Continuation of coursework assignments Coursework Survey and Survey Results, Survey and Survey results, summary Environment Target User Environment Design Brief Design Considerations & Constraints Design Specifications Stating of design Stating of design 		 Overall Project Planning 		
Week 5 • Coursework - Identification of problem [30 Jan - 3 Feb] • Needs Analysis - Identification of problem HBL A, 1 Feb (Wed) • HBL assignment - Decision matrix • HBL assignment • Theory revision on Mechanisms - Decision matrix • Theory revision on Mechanisms • Coursework assignments - Decision matrix • HBL assignment • Coursework - Existing • Coursework • Coursework - Existing • Research on Chosen Situation - Existing - orducts • Research on Chosen Situation - Existing - existing • Survey and Survey Results, - Survey and - Survey and Week 7 • Coursework - User & Environment - User & Environment • Assearch on Chosen Situation - Target User - Environment - Stating of design • Design Brief • Design Considerations & Constraints - Identify design - Identify design • Design Specifications • Design of design - Stating of design - Stating of design	[23 Jan — 27 Jan] CNY, 23 Jan (Mon) &	 Analysis of theme 	- Identification of problem	-
[6 Feb - 10 Feb]OResearch on Chosen Situation - Existing Products - Survey and Survey Results,products analysis - Survey and survey results summaryWeek 7 [13 Feb - 17 Feb]• Coursework O- User & Environment - Target User - Environment O- User & Environment analysis - Stating of design or 15 Feb (Wed)WA1 (Part 1) on 15 Feb (Wed)• Design Brief O Design Specifications- User analysis - Stating of design considerations & Constraints - Stating of design or Stating of design	Week 5 [30 Jan – 3 Feb]	 Needs Analysis Selection of Chosen Situation HBL assignment Theory revision on Mechanisms 	problem situations - Decision matrix for chosen problem	-
[13 Feb - 17 Feb] Research on Chosen SituationTarget UserEnvironmentStating of designbriefDesign BriefDesign SpecificationsStating of designconsiderations & ConstraintsStating of designStating of design		 Research on Chosen Situation Existing Products 	products analysis - Survey and survey results	-
	[13 Feb – 17 Feb] WA1 (Part 1)	 Research on Chosen Situation Target User Environment Design Brief Design Considerations & Constraints 	 Environment analysis Stating of design brief Identify design considerations & constraints Stating of design 	-
Week 8 • Coursework - Ideation -	Week 8	Coursework	- Ideation	-

Term 1 [3 Jan – 10 M	ar]		
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment
[20 Feb – 24 Feb]	 Idea Conceptualisation 		
Week 9 [27 Feb – 3 Mar] WA1 (Part 2) on 1 Mar (Wed)	 Coursework Idea Conceptualisation Evaluation of Ideas (Chosen Idea) WA1 Written Test 	 Ideation Decision matrix for chosen idea 	WA1 – Written Test <u>Topics:</u> Design Process & Mechanisms
Week 10 [6 Mar – 10 Mar]	 Error Analysis WA1 Written Paper Coursework Development of Chosen Idea Forms & Functions Critical Dimensions and Sizing Anthropometry & Ergonomics 	 Exploration of Forms & Functions Critical dimensions & sizing Anthropometry & Ergonomics considerations 	-

*This subject overview is tentative and is subject to changes.

Term 2 [20 Mar – 26 I	May]		
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment
Week 1 [20 Mar – 24 Mar] HBL B, 22 Mar (Wed)	 Coursework Development of Chosen Idea Forms & Functions Critical Dimensions and Sizing Anthropometry & Ergonomics 	 Exploration of Forms & Functions Critical dimensions & sizing 	-
	 HBL assignment Theory revision on Electronics Continuation of coursework assignment 	 Anthropometry & Ergonomics considerations 	
Week 2 [27 Mar – 31 Mar]	 Coursework Mock-ups Testing & Evaluation of Mock-ups 	 Mock-ups making Testing & Evaluation of mock-ups 	-
Week 3 [3 Apr – 7 Apr] HBL C, 5 Apr (Wed)	 Coursework Mock-ups Testing & Evaluation of Mock-ups 	 Mock-ups making Testing & Evaluation of 	-
Good Friday, 7 Apr	 HBL assignment Theory revision on Design Process Continuation of coursework assignment 	mock-ups	
Week 4 [10 Apr – 14 Apr]	 Coursework Development of Chosen Idea Types of Technology (if applicable) Choice of Materials Colour Options Methods of Construction & Assembly 	 Application of technology (if relevant) Proposed materials choice Proposed colour scheme Methods of construction and assembly consideration 	-
Week 5 [17 Apr – 21 Apr] Oral Prelims for S4/5 on 19 Apr (Wed)	 Coursework Details for Prototyping Working drawings 	 Parts drawing Orthographic Projection Exploded view 	-
Week 6 [24 Apr – 28 Apr] WA2 (Part 1) on 26 Apr (Wed) Hari Raya Puasa, 24 Apr (Mon)	 Coursework Details for Prototyping Material List Presentation drawing 	 Material List Presentation Drawing 	

Term 2 [20 Mar – 26	May]		
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment
Week 7 [1 May – 5 May] Labour Day, 1 May (Mon) Oral Prelims for S4/5 on 3 May (Wed)	 Coursework Details for Prototyping Material List Presentation drawing 	 Material List Presentation Drawing 	
Week 8 [8 May – 12 May] WA2 (Part 2) on 10 May (Wed)	 WA2 Written Test Coursework Production Planning Prototyping * Students to bring along their aprons 	- Production schedule	WA2 – Written Test <u>Topics:</u> Design Process Mechanisms Electronics,
Week 9 [15 May – 19 May]	Error Analysis WA2 Written Paper	- Prototype	Structures -
HBL D, 17 May (Wed)	 Coursework Prototyping Continuation of coursework assignment * Students to bring along their aprons HBL assignment Theory revision on Design Process 		
Week 10 [22 May – 26 May]	 Coursework Prototyping * Students to bring along their aprons 	- Prototype	
June Holidays Lesson Wk 4 (TBC)	 Coursework Prototyping Evaluation of prototype Presentation Boards Update * Students to bring along their aprons 	 Prototype Prototype evaluation Presentation Boards 	

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