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	Class Admin.	Gantt chart	-	
[16 Jan – 20 Jan]	<ul> <li>National Exam coursework</li> </ul>	<ul> <li>Theme definition,</li> </ul>		
	syllabus briefing	Mood board		
18-Jan (Wed) timetable replaced with Monday	<ul> <li>Release of Coursework QP</li> </ul>			
timetable	<ul> <li>Project theme analysis</li> </ul>	<ul> <li>Practice paper(focus on</li> </ul>		
eeeas.e		design process)		
CNY celebrations,	Start of Coursework			
20 Jan (Fri)	<ul> <li>Overall Project Planning</li> </ul>			
	<ul> <li>Analysis of theme</li> </ul>			
Week 4	Coursework	Mindmap	-	
[23 Jan – 27 Jan]	<ul> <li>Analysis of theme</li> </ul>	Identification of problem		
CANY 22 / /A4 \ 0	<ul> <li>Needs Analysis</li> </ul>	situations		
CNY, 23 Jan (Mon) & 24 Jan (Tue)	Theory	Practice paper(focus on		
• •	Design Process	design process)		
Week 5	Coursework	Identification of problem	-	
[30 Jan – 3 Feb]	<ul> <li>Needs Analysis</li> </ul>	situations		
1181 4 4 5 1 (14) 1)	<ul> <li>Selection of Chosen Situation</li> </ul>	Decision matrix for chosen		
HBL A, 1 Feb (Wed)	<ul> <li>Continuation of coursework</li> </ul>	problem situation		
	assignments	HBL revision package		
	HBL assignment			
	Theory revision on Design			
Week 6	Process / Mechanisms	E introduction and also		
	Coursework      Coursework      Change Situation	Existing products analysis	-	
[6 Feb – 10 Feb]	Research on Chosen Situation  Spiriting Drug divists	Survey and survey results		
	- Existing Products	summary		
	<ul><li>Survey and Survey Results,</li><li>Theory: Design process/</li></ul>			
	mechanism			
	- Practice paper			
Week 7	Coursework	User & Environment		
[13 Feb – 17 Feb]	Research on Chosen Situation	analysis		
[13.65 17.65]	- Target User	Stating of design brief		
WA1 (Part 1)	- Environment	Identify design		
on 15 Feb (Wed)	Design Brief	considerations &		
	Design Considerations &	constraints		
	Constraints	Stating of design specs.		
	<ul> <li>Design Specifications</li> </ul>	Stating of design speed.		
	Theory: Design process/			
	Mechanism/structure (time practice)			

Term 1 [3 Jan – 10 Mar]				
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment	
<b>Week 8</b> [20 Feb – 24 Feb]	<ul> <li>Coursework</li> <li>Idea Conceptualisation</li> <li>Theory</li> <li>Review of time practice paper</li> </ul>	• Ideation	-	
Week 9 [27 Feb – 3 Mar]  WA1 (Part 2) on 1 Mar (Wed)	<ul> <li>WA1 Written Test</li> <li>Coursework</li> <li>Idea Conceptualisation</li> <li>Evaluation of Ideas (Chosen Idea)</li> </ul>	<ul><li>Ideation</li><li>Decision matrix for chosen idea</li></ul>	WA1 – Written Test Topics: Design Process, Mechanisms, Electronics	
<b>Week 10</b> [6 Mar – 10 Mar]	<ul> <li>Theory: Error Analysis WA1         Written Paper</li> <li>Coursework</li> <li>Development of Chosen Idea         <ul> <li>Forms &amp; Functions</li> <li>Critical Dimensions and Sizing</li> <li>Anthropometry &amp; Ergonomics</li> </ul> </li> </ul>	<ul> <li>Exploration of Forms &amp; Functions</li> <li>Critical dimensions &amp; sizing</li> <li>Anthropometry &amp; Ergonomics considerations</li> </ul>	-	

<sup>\*</sup>This subject overview is tentative and is subject to changes.

Term 2 [20 Mar – 26 May]				
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment	
Week 1 [20 Mar – 24 Mar]  HBL B, 22 Mar (Wed)	<ul> <li>Coursework</li> <li>Development of Chosen Idea         <ul> <li>Forms &amp; Functions</li> <li>Critical Dimensions and Sizing</li> <li>Anthropometry &amp; Ergonomics</li> </ul> </li> <li>Continuation of coursework assignment</li> <li>HBL assignment         <ul> <li>Theory revision on Design Process / Electronics</li> </ul> </li> </ul>	<ul> <li>Exploration of Forms &amp; Functions</li> <li>Critical dimensions &amp; sizing</li> <li>Anthropometry &amp; Ergonomics considerations</li> </ul>	-	
<b>Week 2</b> [27 Mar – 31 Mar]	Coursework     Mock-ups     Testing & Evaluation of Mock-ups     ups	Mock-ups making     Testing & Evaluation of mock-ups	-	
<b>Week 3</b> [3 Apr – 7 Apr]  HBL C, 5 Apr (Wed)	<ul> <li>Theory: Review HBL work</li> <li>Coursework         <ul> <li>Mock-ups</li> <li>Testing &amp; Evaluation of Mock-ups</li> </ul> </li> </ul>	Mock-ups making     Testing & Evaluation of mock-ups	-	
Good Friday, 7 Apr	<ul> <li>HBL assignment</li> <li>Theory revision on Design Process / Structures</li> <li>Continuation of coursework assignment</li> </ul>			
<b>Week 4</b> [10 Apr – 14 Apr]	<ul> <li>Coursework</li> <li>Development of Chosen Idea</li> <li>Types of Technology (if applicable)</li> <li>Choice of Materials</li> <li>Colour Options</li> <li>Methods of Construction &amp; Assembly</li> <li>Theory: Time practice + HBL review</li> </ul>	<ul> <li>Application of technology (if relevant)</li> <li>Proposed materials choice</li> <li>Proposed colour scheme</li> <li>Methods of construction and assembly consideration</li> </ul>	-	
Week 5 [17 Apr — 21 Apr]  Oral Prelims for S4/5 on 19 Apr (Wed)	<ul> <li>Coursework</li> <li>Details for Prototyping</li> <li>Working drawings</li> <li>Theory: Time Practice</li> </ul>	<ul><li> Parts drawing</li><li> Orthographic Projection</li><li> Exploded view</li></ul>	-	

Term 2 [20 Mar – 26   Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment
Week 6	• Coursework	Material List	-
[24 Apr – 28 Apr]	<ul><li>Details for Prototyping</li><li>Material List</li></ul>	<ul><li>Presentation Drawing</li></ul>	
WA2 (Part 1) on 26 Apr (Wed)	<ul><li>Presentation drawing</li><li>Theory: Full paper</li></ul>		
Hari Raya Puasa, 24 Apr (Mon)			
Week 7	Coursework	Material List	-
[1 May – 5 May] Labour Day, 1 May	<ul><li>Details for Prototyping</li><li>Material List</li></ul>	Presentation Drawing	
(Mon) Oral Prelims for S4/5 on 3 May (Wed)	- Presentation drawing		
Week 8	Theory: WA2 Written Test	Production schedule	WA2 -
[8 May – 12 May]	Coursework		Written Test
	<ul> <li>Production Planning</li> </ul>		<u>Topics:</u> Design
WA2 (Part 2)	<ul> <li>Prototyping</li> </ul>		Process,
on 10 May (Wed)			Mechanisms,
	* Students to bring along their aprons		Electronics,
			Structures
Week 9	Error Analysis WA2 Written Paper	- Prototype	-
[15 May – 19 May]	Coursework		
UDI D. 17.Ma	<ul> <li>Prototyping</li> </ul>		
HBL D, 17 May (Wed)	LIBI and a section		
,	HBL assignment     The any revision on Machanisms /		
	Theory revision on Mechanisms /     Electronics		
	Continuation of coursework		
	assignment		
	* Students to bring along their aprons		
Week 10	Error Analysis WA2 Written Paper	- Prototype	-
[22 May – 26 May]	Coursework		
-	<ul> <li>Prototyping</li> </ul>		
	Theory: Review of HBL		
	* Students to bring along their aprons		
June Holidays	Coursework	- Prototype	-
Lesson	Prototyping	- Prototype evaluation	
Wk 4 (TBC)	Evaluation of prototype	- Presentation Boards	
	Presentation Boards Update		
	* Students to bring along their aprons		

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