

Peicai Secondary School
Subject Overview for Semester 2 / 2022
Design and Technology [Secondary Two]

Semester 2			
Term 3 [27 June – 2 September]			
Week	Chapter/Topic/Skill/Area	Assignment/ Homework	Assessment
Week 1 [27 Jun - 1 Jul]	Semester 2 Overview Introduction to Project 1 – Photo frame <ul style="list-style-type: none"> • Introduction to D&T and refresh Design Process. • Workshop safety ; <ul style="list-style-type: none"> - Briefing on workshop safety using Safety Habits videos by CPDD. - Go through procedures concerning general safety, fire evacuation route as well as locations of first-aid items, fire-extinguishers and emergency stop switch in each workshop. • Design Specifications & Design Brief • Ideation Part A <ul style="list-style-type: none"> - Design with Guides - Random Trigger using <i>Shapes and Lines method</i> 	(i) Design Specification (1 page) (ii) Ideation A (1 pages)	WA 3
Week 2 [4 Jul - 8 Jul] <i>4 Jul- Youth Day Holiday 7Jul - HBL</i>	<ul style="list-style-type: none"> • Design Specifications & Design Brief • Ideation Part A <ul style="list-style-type: none"> - Design with Guides - Random Trigger using <i>Shapes and Lines method</i> • Ideation <ul style="list-style-type: none"> - Sketching 2D (Mirroring technique) - Sketching 3D (Sketchbook pro) 	(i) 3D sketching (2 pages)	WA 3
Week 3 [11 Jul - 15 Jul] <i>11 Jul- Hari Raya Haji</i>	<ul style="list-style-type: none"> • Ideation <ul style="list-style-type: none"> - Sketching 2D (Mirroring technique) - Sketching 3D (Sketchbook pro) 	(i) 3D sketching (2 pages)	WA3
Week 4 [18 Jul - 22 Jul] <i>20 Jul- HBL</i>	<ul style="list-style-type: none"> • <u>Cardboard Making</u> <ul style="list-style-type: none"> - Final ideation and Select idea for cardboard making. - Demonstrate Marking Out & Cutting of cardboard modelling. - Cardboard Testing and Transferring of template to actual Metal piece. 	(i) Cardboard design	WA 4
Week 5 [25 Jul - 29 Jul]	<ul style="list-style-type: none"> • Refresh to Project Management <ul style="list-style-type: none"> - Purpose, Flow Chart & important pointers. - Demonstrate the use of correct symbols & sequence of activities for Flow chart in project management. 	(i) Flowchart (1 page)	WA 4

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<p style="text-align: center;">Week 6 [1 Aug - 5 Aug] 1 Aug- HBL</p>	<ul style="list-style-type: none"> • Flow Chart <ul style="list-style-type: none"> - Demonstrate the use of correct symbols & sequence of activities for Flow chart in project management. 	(i) Flowchart (1 page)	WA 4
<p style="text-align: center;">Week 7 [8 Aug - 12 Aug] 8 Aug - NDP Celeb 9 Aug - NDP 10 Aug - NDP Hol 11-12 Aug - WA3</p>	<ul style="list-style-type: none"> • Flow Chart <ul style="list-style-type: none"> - Demonstrate the use of correct symbols & sequence of activities for Flow chart in project management. 	(i) Flowchart (1 page)	WA 4
<p style="text-align: center;">Week 8 [15 Aug - 19 Aug] 15-17 Aug - WA3 (D&T Theory Paper)</p>	<ul style="list-style-type: none"> • Making of Prototype – Metal <ul style="list-style-type: none"> - Marking out - Snipping the shape - Filing, Sanding, Polishing 	(i) Practical	EYE
<p style="text-align: center;">Week 9 [22 Aug - 26 Aug] 23 Aug - HBL</p>	<ul style="list-style-type: none"> • Making of Prototype – Metal & Plastic <ul style="list-style-type: none"> - Continue with Metal process if not complete. - marking out using ruler & pencil, shaping using scroll saw and drilling using drilling machine, filing with files, scraping of acrylic edges with metal rulers, buffing of acrylic using buffing machine & manual polishing. - Drilling of holes using drilling machine on Plastic for assembly with the use of mini Magnets. - Full assembly of project and submission for marking. 	(i) Practical	EYE
<p style="text-align: center;">Week 10 [29 Aug - 2 Sep] 1 Sep - TD Celeb (Thu) 2 Sep - TD Hol (Fri)</p>	<ul style="list-style-type: none"> • Making of Prototype – Metal & Plastic <ul style="list-style-type: none"> - filing with files, scraping of acrylic edges with metal rulers, buffing of acrylic using buffing machine & manual polishing. - Drilling of holes using drilling machine on Plastic for assembly with the use of mini Magnets. - Full assembly of project and submission for marking. 	(i) Practical	EYE

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Term 4 [12 September – 28 October]			
Week	Chapter/Topic/Skill/Area	Assignment/Homework	Assessment
Week 1 [12 Sep - 16 Sep]	<ul style="list-style-type: none"> • Making of Prototype – Metal & Plastic <ul style="list-style-type: none"> - Drilling of holes using drilling machine on Plastic for assembly with the use of mini Magnets. - 	(i) Practical	EYE
Week 2 [19 Sep - 23 Sep]	<ul style="list-style-type: none"> • Photo Evaluation <ul style="list-style-type: none"> - Evaluating against design specification 	(i) Evaluation (1 page)	EYE
Week 3 [26 Sep - 30 Sep]	End of Year Examination		
Week 4 [3 Oct - 7 Oct]	End of Year Examination		
Week 5 [10 Oct - 14 Oct]	Error Analysis		
Week 6 [17 Oct – 21 Oct] <i>19 Oct- Promotion Exercise</i>	Error Analysis		
Week 7 [24 Oct – 28 Oct] <i>24 Oct- Deepavali</i>	Post-examination Activities		

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