

**SYSTEMS TECHNOLOGY FOLIO TIMELINE 2017** Refer to your textbook, workbook, handout named 'Administrative information for school – based assessment' (*very important*) and website – [www.cengage.com.au/syseng](http://www.cengage.com.au/syseng) which has 2 sample student folios and student folio template

STEPS	CRITERIA	PAGE REFERENCES	WEEK COMPLETED BY
1. <b>DESIGN SITUATION</b>	1	198-200 workbook 249 Textbook	2
2. <b>DESIGN BRIEF</b> - with constraints and considerations.	1	201 workbook 249,254 textbook	2
3. <b>RESEARCH</b> – Background info eg pictures from the internet similar to your project. Include annotations and source	2	202-205 workbook 250 textbook	3
4. <b>CONCEPT DRAWINGS</b> – sketches of ideas with annotations – hand drawn or CAD. Do At least 10	2	214-217 workbook 255-256 textbook	4
5. <b>DESIGN OPTIONS</b> – Draw at least 3 possible design options with annotations (hand drawn or google sketchup)	2	218-220 workbook 256 textbook	6
6. <b>JUSTIFICATION OF PREFERRED OPTION.</b> Compare each option using a PMI table or specification table and give a written account	2	224 workbook 256-257 textbook	6
7. <b>WORKING DRAWINGS</b> – Orthographic with all dimensions, joining methods, showing different vies by scale. Preferably use google sketchup and crocodile clips for circuits and gearing	2	221-223 workbook	7
8. <b>BLOCK DIAGRAM AND FLOWCHART INCLUDING CONTROL METHOD</b>	1	194-196 workbook 251-254 textbook	8
9. <b>FUNCTION OF COMPONENTS, SUBSYSTEMS AND SYSTEMS</b> Describe the function and show detailed references to mechanical/electronic concepts and principles	1	253,ch4,5 Textbook	8
10. <b>CALCULATIONS</b> Used to inform function and/or performance of components, subsystems and systems to achieve required outputs eg gear ratio, motor rpm	2	208 workbook 252 textbook	8
11. <b>EVALUATION CRITERIA</b> List 1around 10 in question form with a method of testing	3	207 workbook	8

12. <b>MATERIAL/COMPONENT/SUBSYSTEM LIST</b> – include quantity, supplier, cost and any technical data	3	206 workbook	8
13. <b>PRODUCTION PLAN</b> - showing steps, processes, tools and equipment and safety precautions used. Also include proposed diagnostic tests	3	258-260 Textbook	9
14. <b>TIMELINE</b> Gantt chart showing predicted timeline and actual	3	260 textbook	9
<b>15. AUSTRALIAN STANDARDS</b>	2	254 workbook	TERM 2 WEEK 1
16. <b>RISK ASSESSMENT</b> Include Hazard, Assessment/Level of risk (high/medium/low) and Action necessary to avoid risk	3	237-245 workbook 261-263 textbook	TERM 2 WEEK 1
17. <b>DIAGNOSTIC TESTS</b> At least 3 tests showing purpose, test equipment used, procedural tests, technical information, expected results, actual results and explanation of results	6	249-253 workbook 263-268 and chapter 8 workbook	THROUGH OUT THE YEAR - DUE TERM 3 WEEK 5
<b>18. BEGIN PRACTICAL WORK</b>	4,5,7		TERM 2 WEEK 2
19. <b>WEEKLY JOURNAL</b> – including date, work completed, problems/successes, <b>modifications</b> (changes made from the production plan with reasons – VERY IMPORTANT)) and a photo of your system each week	7	256-266 workbook	MONDAY 12 <sup>TH</sup> SEPTEMBER
20. <b>EVALUATION REPORT (step 18,19,20 below)</b> 18. <b>EVALUATION CRITERIA</b> Evaluate the system using the evaluation criteria established in step 9 and make recommendations on how the system can be improved. Include a photograph of your finished project	8	267-268 workbook	MONDAY 12 <sup>TH</sup> SEPTEMBER
21. <b>EFFECTIVENESS OF THE DESIGN AND PRODUCTION WORK PLAN</b> – also refer to weekly journal and modifications and GANTT charts	8	269-271 textbook	MONDAY 12 <sup>TH</sup> SEPTEMBER
22. <b>DIFFICULTIES ENCOUNTERED</b> – Describe any difficulties and how you overcame them	8	278 workbook	MONDAY 12 <sup>TH</sup> SEPTEMBER
23. <b>COMPLETION DATE</b> Hand in all practical work and folio			MONDAY 12 <sup>TH</sup> SEPTEMBER