

APPENDICES: GANTT CHART

MOHD NIZAM B. KAMARULZAMAN 8316 FAILURE ANALYSIS OF THE COPPER TUBES FOR WATER HEATER (PH-4) SUGGESTED MILESTONE FOR THE FIRST SEMESTER																	
No.	Detail/ Week	1	2	3	4	5	6	7	8	9	10		11	12	13	14	
1	Selection of Project Topic	■	■									Mid-semester break					
2	Preliminary Research Work <ul style="list-style-type: none"> ➤ Make detail study on Failure Analysis Process ➤ Make further research on the copper material ➤ Background history of the copper tube ➤ Normal failure of the copper tube for hot water 		■	■	■	■	■	■	■	■	■			■	■		
3	Submission of Preliminary Report <ul style="list-style-type: none"> ➤ Write an abstract ➤ Identify problem statement, objective and scope of the study ➤ Write the literature review ➤ Explain the methodology to be used in the study 				●												
7	Submission of Progress Report								●								
8	Seminar (compulsory)								●								
9	Getting Sample for experimental work												■				
10	Macroscopic Examination <ul style="list-style-type: none"> ➤ Magnification ranging from 50-1000 x ➤ Using Stereo Optical Microscope ➤ 'Macro' lens 													■	■	■	■
13	Submission of Interim Report Final Draft														●		
14	Oral Presentation															●	

- Process
- Suggested milestone

APPENDIX I

No	Detail/Week	1	2	3	4	5	6	7	8	9		10	11	12	13	14
1	Project Work Continue	■														
	Scanning Electron Microscope Process and Procedure															
	Mechanical Testing Process and Procedure															
2	Submission of Progress Report 1				●											
3	Project Work Continue				■											
	Scanning Electron Microscope Data Interpretation															
	Mechanical Testing Data Interpretation															
4	Submission of Progress Report 2								●							
5	Seminar 2								●							
6	Project Work Continue											■				
	Chemical Analysis															
	Final Analysis & Conclusion															
7	Poster Exhibition															
8	Submission of Dissertation (soft bound)											●		●		
9	Oral Presentation														●	
10	Submission of Dissertation (hard bound)															●

Mid-Semester Break

- Process
- Suggested milestone

