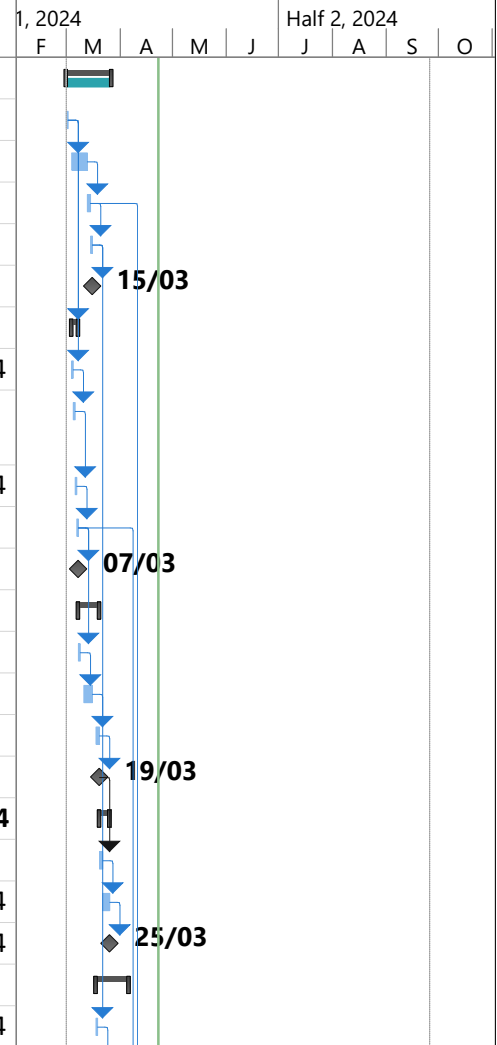
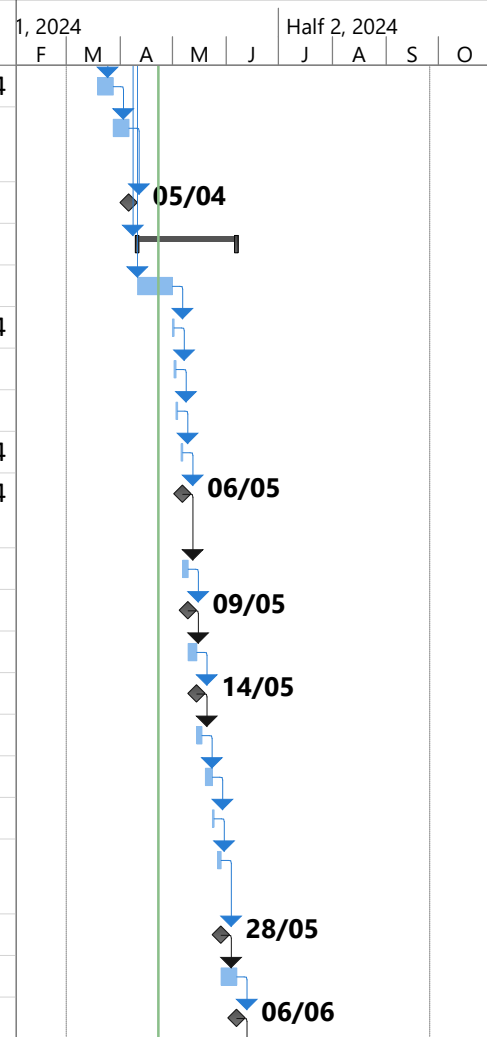


ID	Task Mode	Task Name	Duration	Start	Finish	1, 2024							Half 2, 2024						
						F	M	A	M	J	J	A	S	O					
1		1 Project Planning and Preparation	18 days	Fri 01/03/24	Tue 26/03/24														
2		1.1 Define research objectives and scope	1 day	Fri 01/03/24	Fri 01/03/24														
3		1.2 Conduct literature review on cavitation erosion a	7 days	Mon 04/03/24	Tue 12/03/24														
4		1.3 Develop research methodology	2 days	Wed 13/03/24	Thu 14/03/24														
5		1.4 Obtain feedback	1 day	Fri 15/03/24	Fri 15/03/24														
6		1.5 Deliverable - Aims & Objectives	0 days	Fri 15/03/24	Fri 15/03/24														
7		1.6 Resource Management	4 days	Mon 04/03/24	Thu 07/03/24														
8		1.6.1 Define Resource Requirements	1 day	Mon 04/03/24	Mon 04/03/24														
9		1.6.2 Identification of types of resources needed (e.g., personnel, equipment, materials)	1 day	Tue 05/03/24	Tue 05/03/24														
10		1.6.3 Resource - Personnel	1 day	Wed 06/03/24	Wed 06/03/24														
11		1.6.4 Resource - Equipment	1 day	Thu 07/03/24	Thu 07/03/24														
12		1.6.5 Deliverable - Resource Management	0 days	Thu 07/03/24	Thu 07/03/24														
13		1.7 Risk Management	8 days	Fri 08/03/24	Tue 19/03/24														
14		1.7.1 Identification of risks	1 day	Fri 08/03/24	Fri 08/03/24														
15		1.7.2 Identification of Likelihood and Impact of Ide	5 days	Mon 11/03/24	Fri 15/03/24														
16		1.7.3 Identify Risk Mitigation Strategies	2 days	Mon 18/03/24	Tue 19/03/24														
17		1.7.4 Deliverable - Risk Management	0 days	Tue 19/03/24	Tue 19/03/24														
18		1.8 Beneficiaries & Stakeholder	4 days	Wed 20/03/24	Mon 25/03/24														
19		1.8.1 Identification of beneficiaries	2 days	Wed 20/03/24	Thu 21/03/24														
20		1.8.2 Identification of stakeholders	2 days	Fri 22/03/24	Mon 25/03/24														
21		1.8.3 Deliverable - Beneficiaries & Stakeholder	0 days	Mon 25/03/24	Mon 25/03/24														
22		2 Material Preparation	15 days	Mon 18/03/24	Fri 05/04/24														
23		2.1 Procure Stellite samples of different composition	1 day	Mon 18/03/24	Mon 18/03/24														



Project: WBS Date: Tue 23/04/24	Task		Inactive Summary		External Tasks	
	Split		Manual Task		External Milestone	
	Milestone		Duration-only		Deadline	
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	Project Summary		Manual Summary		Manual Progress	
	Inactive Task		Start-only			
	Inactive Milestone		Finish-only			

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						F	M	A	M	J	J	A	S	O				
24		2.2 Prepare Stellite samples for testing (e.g., cutting,	7 days	Tue 19/03/24	Wed 27/03/24													
25		2.3 Characterize Stellite samples (images, density measurement, marking, inventory management)	7 days	Thu 28/03/24	Fri 05/04/24													
26		2.4 Milestone - Sample handover	0 days	Fri 05/04/24	Fri 05/04/24													
27		3 Experimental Rig Setup	41 days	Thu 11/04/24	Thu 06/06/24													
28		3.1 Design cavitation erosion test rig	14 days	Thu 11/04/24	Tue 30/04/24													
29		3.2 Review cavitation erosion design - Ahmed Algod	1 day	Wed 01/05/24	Wed 01/05/24													
30		3.3 Review cavitation erosion design - Dr Rehan Ahm	1 day	Thu 02/05/24	Thu 02/05/24													
31		3.4 Review cavitation erosion design - Dr Mohammed	1 day	Fri 03/05/24	Fri 03/05/24													
32		3.5 Review cavitation erosion design - Muhsin Aykap	1 day	Mon 06/05/24	Mon 06/05/24													
33		3.6 Milestone - Acquire equipment for cavitation erosion rig	0 days	Mon 06/05/24	Mon 06/05/24													
34		3.7 Structure Assembly	3 days	Tue 07/05/24	Thu 09/05/24													
35		3.8 Milestone - Assemble Design	0 days	Thu 09/05/24	Thu 09/05/24													
36		3.9 Mounting of Equipment	3 days	Fri 10/05/24	Tue 14/05/24													
37		3.10 Milestone - Equipment Mounted	0 days	Tue 14/05/24	Tue 14/05/24													
38		3.11 Wiring of Power Cables	3 days	Wed 15/05/24	Fri 17/05/24													
39		3.12 Wiring of Signal Cables	4 days	Mon 20/05/24	Thu 23/05/24													
40		3.13 Connection of Fluid Cables	1 day	Fri 24/05/24	Fri 24/05/24													
41		3.14 Calibrate instrumentation (e.g., ultrasonic transducers, pressure sensors)	2 days	Mon 27/05/24	Tue 28/05/24													
42		3.15 Milestone - Equipment Components functional	0 days	Tue 28/05/24	Tue 28/05/24													
43		3.16 Integration Testing	7 days	Wed 29/05/24	Thu 06/06/24													
44		3.17 Milestone - Stainless steel samples	0 days	Thu 06/06/24	Thu 06/06/24													



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						F	M	A	M	J	J	A	S	O					
45	→	4 Cavitation Testing	30 days	Fri 07/06/24	Thu 18/07/24														
46	→	5 Data Analysis	13 days	Fri 19/07/24	Tue 06/08/24														
47	→	5.1 Process experimental data (e.g., erosion depth measurements, surface roughness data)	5 days	Fri 19/07/24	Thu 25/07/24														
48	→	5.2 Fit to parameter models	3 days	Fri 26/07/24	Tue 30/07/24														
49	→	5.3 Analyze cavitation erosion mechanisms and patterns	5 days	Wed 31/07/24	Tue 06/08/24														
50	→	6 Material characterization	27 days	Mon 03/06/24	Tue 09/07/24														
51	→	6.1 EDM Wire Cutting	7 days	Mon 03/06/24	Tue 11/06/24														
52	→	6.2 Sample Preparation	7 days	Wed 12/06/24	Thu 20/06/24														
53	→	6.3 Resin Casting	1 day	Fri 21/06/24	Fri 21/06/24														
54	→	6.4 SEM & EDS - Visit 1	3 days	Mon 24/06/24	Wed 26/06/24														
55	→	6.5 SEM & EDS - Visit 2	3 days	Thu 27/06/24	Mon 01/07/24														
56	→	6.6 SEM & EDS - Visit 3	3 days	Tue 02/07/24	Thu 04/07/24														
57	→	6.7 SEM & EDS - Visit 4	3 days	Fri 05/07/24	Tue 09/07/24														
58	→	7 Reporting and Documentation	25 days	Mon 24/06/24	Fri 26/07/24														
59	→	7.1 Create visualizations (e.g., graphs, charts) to illustrate results	2 days	Mon 24/06/24	Tue 25/06/24														
60	→	7.2 Adapt Literature Review	7 days	Wed 26/06/24	Thu 04/07/24														
61	→	7.3 Milestone - Report - Introduction	5 days	Fri 05/07/24	Thu 11/07/24														
62	→	7.4 Milestone - Report - Methodology	3 days	Fri 12/07/24	Tue 16/07/24														
63	→	7.5 Milestone - Report - Results & Discussion	5 days	Wed 17/07/24	Tue 23/07/24														
64	→	7.6 Milestone - Report - Conclusion	2 days	Wed 24/07/24	Thu 25/07/24														
65	→	7.7 Milestone - Report - Abstract	1 day	Fri 26/07/24	Fri 26/07/24														
66	→	8 Presentation	7 days	Mon 29/07/24	Tue 06/08/24														
67	→	8.1 Create presentation materials (e.g., slides)	5 days	Mon 29/07/24	Fri 02/08/24														

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68	→	8.2 Practice oral presentation	2 days	Mon 05/08/24	Tue 06/08/24												
69	→	9 Publication	38 days	Mon 05/08/24	Wed 25/09/24												
70	→	9.1 Write conference paper	12 days	Mon 05/08/24	Tue 20/08/24												
71	→	9.2 Present research findings at conferences, seminars, or workshops	2 days	Wed 21/08/24	Thu 22/08/24												
72	→	9.3 Write journal paper	21 days	Fri 23/08/24	Fri 20/09/24												
73	→	9.4 Publish research findings in scientific journals or other relevant publications	3 days	Mon 23/09/24	Wed 25/09/24												



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