

ID	WBS	Task Name	Duration	Work	Gantt Chart																														
0		Design Synthesis Exercise	47 days?	3,970 hrs																															
1	1	Project planning	5 days	370 hrs																															
2	1.1	Define mission and project objectives	1.13 days	20 hrs																															
5	1.2	Group Organization	1.63 days	100 hrs																															
16	1.3	Work division	4 days	192 hrs																															
25	1.4	Risk management	3.13 days	33 hrs																															
33	1.5	Organisational approach to sustainability	0.63 days	5 hrs																															
36	1.6	Team guidelines	0.25 days	20 hrs																															
37	1.7	Draft Project Plan	0 days	0 hrs																															
38	2	Conceptual development phase	5 days?	525 hrs																															
39	2.1	Literature study	1.97 days	150 hrs																															
49	2.2	Requirement determination	3 days?	100 hrs																															
59	2.3	System concept generation	2 days?	150 hrs																															
66	2.4	Preliminary concepts evaluation	1 day?	125 hrs																															
74	2.5	Baseline report	0 days	0 hrs																															
75	3	Trade-off phase	4 days?	275 hrs																															
76	3.1	Set-up trade-off	1 day?	125 hrs																															
84	3.2	Performing trade-offs	3 days?	150 hrs																															
88	4	Preliminary design	12 days?	800 hrs																															
89	4.1	Class I preliminary sizing	4 days?	250 hrs																															
99	4.2	Subsystem preliminary sizing	3 days?	250 hrs																															
109	4.3	Class II sizing	3 days?	100 hrs																															
113	4.4	Stability and control	5 days?	200 hrs																															
119	4.5	Midterm report	0 days	0 hrs																															
120	5	Detailed design	14 days?	1,700 hrs																															
121	5.1	Stability analysis	1 day?	350 hrs																															
128	5.2	Structural analysis	3 days?	350 hrs																															
136	5.3	Aerodynamic analysis	2 days?	400 hrs																															
144	5.4	Propulsion analysis	2 days?	300 hrs																															
150	5.5	3D model implementation	6 days?	300 hrs																															
160	5.7	Jury Summary	0 days	0 hrs																															
161	5.8	Draft final report	0 days	0 hrs																															
162	6	Project finalisation	7 days?	300 hrs																															
163	6.1	Symposium	2 days?	165 hrs																															
169	6.2	Final review	1 day?	25 hrs																															
172	6.3	Final report	2 days?	80 hrs																															
177	6.4	"Red booklet"	1 day?	25 hrs																															
179	6.5	Poster	0 days	0 hrs																															
180	6.6	Final Report Revision	0 days	0 hrs																															
181	6.7	Red booklet	0 days	0 hrs																															
182	6.8	Symposium presentation	0.63 days	5 hrs																															

Design Synthesis Exercise

Date: Fri 4/26/24

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress