Name	Work		2022, Qtr 2	
		mar	abr	mai ju
PSim Simulations	16d			
RFOC	3d	i		
SFOC	3d			
Variable Id Reference	4d	!    -  -		
PI Tunning	3d			
Anti-Slip Functions	3d			
IM Economic Studies	4d			
Parameter Discovery	2d			
Workbench Limitations (nominal values)	1d	i		
Motor Model Studies	1d	<u> </u>		
Motor Model and Parameter Estimation(MATLAB)				
General Motor Model	7d			
Offline Plug-In Parameter Estimation	5d	!                  -		
Online Parameter Estimation	10d		<u></u>	
XMC Code Export and Creation	40d			
FOC Code build Offline Parameter Estimation Code Export	20d 7d	i       <del>        </del>		
Online Parameter Estimation Code Export  Online Parameter Estimation Code Export	7d			
Anti-Slip limitations Code build	3d			
Communication Protocol Build	3d			
Testing and Verification	29d	!		
FOC Code Testing (No Load)	4d			
FOC Testing (Dynamic Nominal Load)	9d			
Offline Parameter Estimation Testing (Individual)	4d			
Integrated Offline P.E. and FOC Test	4d	:		
Anti-Slip Limiter Testing	4d			
Communication Testing (Off Test Bench)	2d			
Online Parameter Estimation Testing (integrated)	2d	i		
Dissertation Writing	87d			
SOTA Review	5d			
Test Bed Exploration	7d			
Economic Tests - Parameter Discovery	3d			
Test Bed Sensoring	4d			
PSim Simulations	17d			
RFOC v SFOC	7d	i		
Anti-Slip	4d			
Id Reference	3d	i		
PI Tunning	3d			
MATLAB Parameter Estimation	42d 5h	!	_	
Motor Model Creation / Evalination	<b>3d</b> 3d		_`	
Motor Model Creation / Explination  Offline Parameter Estimation	20d 5h	<u> </u>		
Stator Resistance Measuments	7d	i       <del>    </del>		
Stator Resistance Measuments	6d 5h			
Rotor and Magnetic Quantities Aproximation	7d			
Online Parameter Estimation	19d			
Relevant Parameter to Estimate	4d	!		
Kalaman Filters	9d			
Function and Parameter Aproximation	6d	:		
XMC Code Build	6d 3h			
Hardware Choice and Parameters	2d			
GPIO and ADC Configuration	2h	i		
FOC Code Explination	2d			
Parameter Estimation Code Export	2d			
Communication protocol code	1h			
Testing and Results	7d	!		
Individual Testing (Bottom-Up)	3d			
Integrated No-Load Testing	1d	!		
Integrated Full Load Testing	1d			
Efficiency Calculations	2d			
Discussion and Interpretation	2d			

WBS	Name	Start	Finish	Work	Duration	Slack	Cost	Assigned to	% Complete
1	PSim Simulations	fev 21	mar 1	16d	6d	63d 2h	0		0
1.1	RFOC	fev 21	fev 23	3d	3d	66d 3h	0		0
1.2	SFOC	fev 23	fev 25	3d	3d	64d 3h	0		0
1.3	Variable Id Reference	fev 22	fev 25	4d	4d	64d 3h	0		0
1.4	PI Tunning	fev 22	fev 24	3d	3d	65d 3h	0		0
1.5	Anti-Slip Functions	fev 24	mar 1	3d	3d	63d 2h	0		0
2	IM Economic Studies	mar 2	mar 3	4d	2d	51d 3h	0		0
2.1	Parameter Discovery	mar 2	mar 3	2d	2d	51d 3h	0		0
2.2	Workbench Limitations (nominal values)	mar 3	mar 3	1d	1d	51d 3h	0		0
2.3	Motor Model Studies	mar 3	mar 3	1d	1d	51d 3h	0		0
3	Motor Model and Parameter Estimation(MATLAB)	mar 7	mar 25	22d	15d	44d 3h	0		0
3.1	General Motor Model	mar 7	mar 15	7d	7d	52d 3h	0		0
3.2	Offline Plug-In Parameter Estimation	mar 11	mar 17	5d	5d	29d 4h	0		0
3.3	Online Parameter Estimation	mar 14	mar 25	10d	10d		0		0
4	XMC Code Export and Creation	mar 7	abr 5	40d	22d	37d 3h	0		0
4.1	FOC Code build	mar 7	abr 1	20d	20d	5d	0		0
4.2	Offline Parameter Estimation Code Export	mar 18	mar 28	7d	7d	43d 3h	0		0
4.3	Online Parameter Estimation Code Export	mar 28	abr 5	7d	7d		0		0
4.4	Anti-Slip limitations Code build	mar 24	mar 28	3d	3d	43d 3h	0		0
4.5	Communication Protocol Build	mar 30	abr 1	3d	3d	39d 3h	0		0
5	Testing and Verification	abr 18	mai 18	29d	23d	6d 3h	0		0
5.1	FOC Code Testing (No Load)	abr 18	abr 21	4d	4d	6d	0		0
5.2	FOC Testing (Dynamic Nominal Load)	abr 22	mai 4	9d	9d	6d 3h	0		0
5.3	Offline Parameter Estimation Testing (Individual)	mai 5	mai 10	4d	4d	6d 3h	0		0
5.4	Integrated Offline P.E. and FOC Test	mai 11	mai 16	4d	4d	6d 3h	0		0
5.5		abr 22	abr 27	4d	4d	21d 3h	0		0
5.6	Anti-Slip Limiter Testing	abr 22	abr 25	2d	2d	23d 3h	0		0
	Communication Testing (Off Test Bench)				2d 2d		0		0
5.7	Online Parameter Estimation Testing (integrated)	mai 17	mai 18	2d		6d 3h	0		0
6	Dissertation Writing	fev 22	mai 27	87d	68d 3h	624.25	-		-
6.1	SOTA Review	fev 22	fev 28	5d	5d		0		0
6.2	Test Bed Exploration	mar 4	mar 14	7d	7d	53d 3h	-		0
6.2.1	Economic Tests - Parameter Discovery	mar 4	mar 8	3d	3d	53d	0		0
6.2.2	Test Bed Sensoring	mar 9	mar 14	4d	4d		0		0
6.3	PSim Simulations	abr 27	mai 12	17d	12d	10d 3h			0
6.3.1	RFOC v SFOC	abr 27	mai 5	7d	7d	15d 3h			0
6.3.2	Anti-Slip	mai 3	mai 6	4d	4d	14d 3h			0
6.3.3	Id Reference	mai 9	mai 11	3d	3d	11d 3h			0
6.3.4	PI Tunning	mai 10		3d	3d	10d 3h			0
6.4	MATLAB Parameter Estimation	mar 18	mai 5	42d 5h		15d 3h			0
6.4.1	Motor Model	mar 28	mar 30	3d	3d	41d 3h			0
6.4.1.1	Motor Model Creation / Explination	mar 28	mar 30	3d	3d	41d 3h			0
6.4.2	Offline Parameter Estimation	mar 18	abr 15	20d 5h	20d 5h	29d 5h			0
6.4.2.1	Stator Resistance Measurments	mar 18	mar 28	7d	7d	29d 4h			0
6.4.2.2	Stator Inductance Measuments	mar 29	abr 6	6d 5h	6d 5h	29d 5h	0		0
6.4.2.3	Rotor and Magnetic Quantities Aproximation	abr 6	abr 15	7d	7d	29d 5h	0		0
6.4.3	Online Parameter Estimation	abr 6	mai 5	19d	22d	15d 3h	0		0
6.4.3.1	Relevant Parameter to Estimate	abr 6	abr 11	4d	4d		0		0
6.4.3.2	Kalaman Filters	abr 15	abr 27	9d	9d		0		0
6.4.3.3	Function and Parameter Aproximation	abr 28	mai 5	6d	6d		0		0
6.5	XMC Code Build	mai 6	mai 16	6d 3h	6d 3h	9d	0		0
6.5.1	Hardware Choice and Parameters	mai 6	mai 9	2d	2d		0		0
6.5.2	GPIO and ADC Configuration	mai 10	mai 10	2h	2h		0		0
6.5.3	FOC Code Explination	mai 10	mai 12	2d	2d		0		0
6.5.4	Parameter Estimation Code Export	mai 12	mai 16	2d	2d		0		0
6.5.5	Communication protocol code	mai 16	mai 16	1h	1h		0		0
6.6	Testing and Results	mai 16	mai 25	7d	7d	2d	0		0
6.6.1	Individual Testing (Bottom-Up)	mai 16	mai 19	3d	3d		0		0
6.6.2	Integrated No-Load Testing	mai 19	mai 20	1d	1d		0		0
6.6.3	Integrated Full Load Testing	mai 20	mai 23	1d	1d		0		0
C C 4	Efficiency Calculations	mai 23	mai 25	2d	2d		0		0
6.6.4									

Name	Short name	Type	Group	Email	Cost
Test Bench Access		Work			100
Writing Time		Work			20
PSim Access		Work			30
MATLAB Access		Work			30
XMC Access		Work Work			40 150
Inverter Access		VVOIK			130