RESEARCH PROJECT TIMELINE

Quantum Optimisation for the Vehicle Routing Problem

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	Sec										emester												
					1 (2025 first half)						2 (2025 second							d half)					
activity \ week	1	2	3	4						1	0 1	1 12	1	2	3	4	5	6	7 8	9	10	11	12 fin
Topic Formulation				-				_				_											
Create research topic brief write up																							
Make the case stronger, define data sources, construct timeline																							
finalize topic																							
Literature Review																							
Explore quantum algorithms and circuits (QAOA, Quantum Walk, VQE, Quantum Annealing)																							
Review existing research on quantum optimization for VRP																							
Research Methodology Formulation																							
Develop research methodology to approach VRP using quantum optimization																							
create structured proposal draft																							
Research Proposal Drafting																							
Write research proposal with objectives, methodology, and case study specifics																							
submit research proposal																							
Data Acquisition																							
Collect data from real-world sources																							
create data flow plan																							
Oral Presentation																							
prepare oral presentation																							
present to supervisor																							
oral presentation: research progress																							
Quantum Algorithm Formulation																							
Data Translation																							
Translate spatial data into a VRP-compatible graph																							
Quantum Algorithm Formulation and Implementation																							
Benchmarking Strategy																							
Algorithm Optimization																							
Thesis paper preparation and finalization																							
paper preparation																							
enhancement																							
finalization and submission																							