Working Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Dates	**25.11.**	**2.12.**	**9.12.**	**16.12.**	**23.12.**	**30.12.**	**6.1.**	**13.1.**	**20.1.**	**27.1.**	**3.2.**	**10.2.**	**17.2.**	**24.2.**	**3.3.**	**10.3.**	**17.3.**	**24.3.**	**31.3.**	**7.4.**	**14.4.**	**21.4.**	**28.4.**	**5.5.**	**12.5.**
Sensors and Inputs	Conduct a detailed analysis of the provided documentation to identify project requirements, objectives and constraints. Design a scalable and modular architecture, specifying system components, interactions and workflows. Allocate tasks based on team members' expertise, ensuring clearly defined roles and responsibilities. Develop a project timeline with milestones, deadlines, and contingency plans for risk mitigation.				Testing communication between sensors, and the system, defining ROIs								Consideration and decision on adding new sensors to improve the system.					Fine-Tuning of input data accuracy							
					Data processing																				
Perception					Lane detection		Intersection detection			Traffic sign detection								Object detection and classification							
										Traffic light detection								Scene Classification							
														Crosswalk detection											
Localization and Mapping					Development of the basic vehicle localization system					Fusion of IMU and GPS data and the correction of the vehicle's location, highlighting both the integration and the purpose of improving accuracy.								Localization validation in dynamic environments							
Path Planning and Decision Making					Researching path planning methods			Path planning algorithms development and implementation						Integration of optimization methods				Performance validation through test cases and simulations							
														Testing the decision-making system											
Vehicle Control					Lane following					Intersection navigation				Braking and hard braking				Optimization of vehicle response to environmental changes							
														Stop for traffic light, traffic sign and crosswalk											
Final Results					Robot is capable of moving, following lanes and making curves.The team has begun validating the robot's behavior in virtual environments before applying it to physical systems for further testing.					Robot can navigate in intersection				Robot is capable of stopping at traffic signs and traffic lights, performing an emergency stop if necessary, and slowing down at crosswalk.				The robot is capable of parking, reacting to all traffic signs and markings, responding to dynamic environments, and making decisions accordingly.						
				1st report					**2nd report**				**3rd report**				**QUALI**					**5th report**			