Deadline		**24.12.16**					**25.01.20**				**25.02.17**				**25.03.17**					**25.04.21**				**25.05.21**
Report Number		**1st report**					**2nd report**				**3rd report**				**Qualification**					**4th report**				**5th report**
Start of the week	24.12.9	24.12.16	24.12.23	24.12.30	25.1.6	25.1.13	25.1.20	25.1.27	25.2.3	25.2.10	25.2.17	25.2.24	25.3.3	25.3.10	25.3.17	25.3.24	25.3.31	25.4.7	25.4.14	25.4.21	25.4.28	25.5.5	25.5.12	25.5.19
Software	Design whole architecture		Build test environment (Gazebo)		Develop Car control code using input data		Develop Lane keeping and global path planning algorithm				Decision making & Local path planning algorithm				Additional Decision making & code integration					Develop to Robust Algorithm				
	Connect to the dashboard & Control the car				Develop depth data acquisition code		Develop lane-centering algorithm				Decision making for all situation on map						Code Optimization (Real-time Debugging)			Code Optimization				
	Analyze given Code				Implement obstacle-based stop code				Develop global path planning with GraphML			Lane change path planning				Dashboard configuration (Real-time Monitoring)					Testing in a variety of environments			
									Develop GPS-based position update code.			object avoidance path planning		Roundabout path planning		Fog, Tunnel path planning								
Electronics Engineer		Sensor Data to Output Control					Lane-Keeping Control System				Data preprocessing & Motor Control				Hardware Reliability & Communication Protocol					Final System Integration				
	Hardware System Preparation			Implement simple control logic			Sensor Data Calibration				ROI settings for cameras and sensors				Monitoring for sensor and motor					Sensor Fusion Optimization				
		Sensor Data Processing			System Integration Test			Motor Control Optimization				Noise Filttering					Refined Testing				Precision Motor Control			
									Integration Testing (Test lane-keeping on various tracks)		Integrated Motor Control					Advanced Communication Robustness						Final System Integration		
AI		AI Model Selection and Data Preparation					Lane-Keeping Model Development				Traffic Sign & Obstacle Detection				Advanced Features Development					Other functionalities and optimizations				
		Model Selection & Dataset Collection					Lane-Keeping Model Refinment &Testing			Traffic Sign Detection Training		Obstacle Detection Training			Multi-Vehicle Collision Avoidance		Dynamic Path Planning			Model Optimization		End-to-End Testing & Final Submission		
			Data Augmentation & Initial Lane Detection Training										Integration & Real time Testing						Integration & Real time Testing					
Final result & Demo	Initial System Setup & Basic Control		Basic Lane-Keeping & Depth Data Processing				Advanced Path Planning & Traffic Sign Detection				Core Autonomous Features Complete				Advanced Path Planning & Real-Time Testing					Final System Integration & End-to-End Test				
	Vehicle responds to manual dashboard control		Maintains lane position on straight tracks.				Navigates intersections and responds to traffic signs.				Executes lane changes, obstacle avoidance, and sign-based routing.				Handles roundabouts, highway entrances/exits, fog, and tunnels.					Fully autonomous driving across all track conditions.				