Working Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	1	14 15	16	17	18	19	20	21	22	23 24	25
Start of the week	18-Nov	25-Nov	2-Dec	9-Dec	16-Dec	23-Dec	30-Dec	6-Jan	13-Jan	20-Jan	27-Jan	3-Feb	10-Feb	17-	-Feb 24-Feb	3-Mar	10-Mar	17-Mai	24-M	ar 31-Ma	ır 7-Apr	14-Apr	21-Apr 28-A	pr 5-May
			2/12 Kick - off	9/12 Discussion on Brain	16/12 Discussion on Embedded 18/12 receive car kit 19/12 Discussion on Computer																			
					Camera handling, preprocessing, noise cancelling, ROIs definition Define other necessary sensors, define use-case, integration (IMU, distance), preprocessing, noise cancelling.									on (IMU, distance),										
Sensing and input working package					Define use-case and test given servers information (localisation on map, cars interaction, gps interaction)										1									
				Team photo submission															Induce noise on all sensors and systems			Other functionalities and optimizations		
Perception and scene understanding working package	Documentation on the given guides and projects.	Ubuntu 20.04 & Ros Noetic Study and document vehicle architecture		Research ROS, sensors, and initial tools Study and	Lane detection			Intersection detection		T		Traffic sig	fic sign detection		Traffic light detection									
														P	osition fusion			Traffic	ights de	ection & cl	assification	n		
			dv and											Define obje		objects p	ts properties file		Object detection & classification					
	Chose main languages and		ent vehicle	document vehicle											Environmental server in			teraction						
	technologies			architecture																		Other functionalities a	nd optimizations	
	Create/adapt	Create/adapt project plan		Plan GitHub repository	Define project architecture and communication betw				en packages		Define path planning and validation				Define robustness and safety measures									
Behaviour and	project plan	Members tasks asignation Study given s up code	given start-	structure Create/adapt project plan Study given start- up code								Define	e decision making> priorit	ties of	es of actions and state flow									
motion plan working package																		robus	tness (lo oad sea	n systems in systems i	e, burned	Other functionalities a	nd optimizations	BFMC
Vehicle control working packages					Lane following and speed control					Intersection navigation				Simple action taking maneuvers (parking, stop for traffic sign, stop for traffic light, stop for pedestrian)				lane for	n taking m static and r d search)					
																						Other functionalities a	nd optimizations	
Final result & Demo					the physical car remotely and the car on the simulator. Car can keep			ep a lane,	can make a curve	Car can navigate in inter			intersection	Car can go on a pre-determined path, stop at stop sign, park at parking sign, slow at crosswalk			position specifi lights	, the Car ed chec , interact	g and calcu can dynar opoint, read with other vironemt da	nicaly go to ot to traffic cars and	0			
Tinariesuit & Demo				Team defines	and creates it's own physical testing	environme	nt	Tean	n defines a way of parallel	developin	g and testing													
					Team installs the virtual testing envi	Team installs the virtual testing environment																		
																				Other functionalities and optimizations				
Deadlines				16-Dec					20-Jan				17-Feb				17-Mar					21-Apr		21-May
Checkpoint				1st report					2nd report		Lunar new year	r	3rd report				Mid-term quality gate					4th report		5th report
Requirements				The team should at least control the car with the given start-up code.					The team should at least link the input data to a rough output (for example, camera to motors).				The team should have at least shown some in- depth algorithmic approaches (for example, show a pretty solid lane-keeping)				The team should have at least some autonomous features ready (for example, show the car keeping its lane and reacting to some signs or obstacles)					The team should show autonomous features almost complete (for example, show specific reactions to particular cases: fog, roundabout).		Team should show autonomous features complete (car can react to any obstacle on the map).