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
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-Fel	eb 24-Feb	3-Mar	10-Mar	17-Mar	24-N	lar 31-M	ar 7-Ap	or 14-Apr	21-Apr 28-Ap	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																			_
		Ubuntu 20.0-Ros Noeti Study and document vel architectur Create/ada project pla Study given sup code	Noetic dy and	Team photo submission Research ROS, sensors, and initial tools Study and document vehicle architecture Plan GitHub repository structure Create/adapt project plan Study given startup code	Camera handling, preprocessing, noise cancelling, ROIs definition Define other necessary sensors, define use-case, integration (IMU, distance), preprocessing, noise cancelling.																			
Sensing and input working package					Define t						se-case and test given servers information (localisation on map, case)													
	Documentation on the given guides and projects. Chose main languages and technologies																Induce noise on all sensors and systems			sors and	Other functionalities	Other functionalities and optimizations		
Perception and scene understanding working package					Lane detection			Intersection detection				Traffic sign detection			Traffic light detection					_				
														Posit	ition fusion			Traffic I	ights de	tection & o	classificati	on		
															Define objects properties file				Object detection & classification					I
															Environmental server int			teraction						
																				Other functionalities	and optimizations	_		
Behaviour and motion plan working package	Create/adapt project plan				Define project architecture and communication				en packages	Define path planning and validation				Define robustness and safety measures										
	Members tasks asignation											Define	Define decision making> prioritie		s of actions and state flow					BFMC				
																		robust	tness (lo	n systems oss of imag arch, undef nd states)	je, burned	Othor franctionalities	and 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	on taking n static and ad search)	mobile ca					
																						Other functionalities	and optimizations	
Final result & Demo					the physical car remotely and the car on the simulator.	ep a lane,	can make a curve	Car can navigate in intersection			intersection	Car can go on a pre-determined path, stop at stop sign, park at parking sign, slow at crosswalk			position, specifi lights,	, the Ca ed chec interac	ig and cald r can dyna kpoint, rea t with othe ivironemt o	micaly go act to traffi r cars and	to c					
Timal result & Demo				Team defines	and creates it's own physical testing environment		nt	Team defines a way of parallel		developin	ng and testing													
					Team installs the virtual testing environment																ı			
																				Other functionalities	Other functionalities and optimizations			
Deadlines				16-Dec					20-Jan				17-Feb				17-Mar					21-Apr		21-May
Checkpoint				1st report					2nd report		Lunar new yea		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).