

## Autonomous car data track schedule

Class	Topics to be covered
Class 1	Design thinking
Class 2	Autonomous car introduction
Class 3	Anaconda tool Installation
Class 4	How do Autonomous cars work?
Class 5	Computer vision
Class 6	Computer vision
Class 7	Deep learning - NN
Class 8	Deep learning - CNN
Class 9	CNN Architecture
Class 10	Object detection
Class 11	Object detection
Class 12	Deep learning concepts in Autonomous car
Class 13	Autonomous car Assembling part
Class 14	Machine learning in Autonomous Car
Class 15	Lane detection
Class 16	Project 1 - Lane Finding
Class 17	Project 2 - Advanced Lane Finding
Class 18	Building a Road Sign Classifier in Keras
Class 19	Building a Road Sign Classifier in Keras
Class 20	Project 3 - Traffic Sign Classifier

## Autonomous car Product track schedule

Class 21	State Estimation - Linear and Nonlinear Kalman Filters
Class 22	State Estimation - Linear and Nonlinear Kalman Filters
Class 23	State Estimation - Linear and Nonlinear Kalman Filters
Class 24	GNSS/INS Sensing for Pose Estimation
Class 25	GNSS/INS Sensing for Pose Estimation
Class 26	LIDAR Sensing
Class 27	LIDAR Sensing
Class 28	LIDAR Sensing
Class 29	An Autonomous Vehicle State Estimator
Class 30	An Autonomous Vehicle State Estimator
Class 31	Sensors
Class 32	Sensors
Class 33	Least Squares
Class 34	Least Squares
Class 35	Least Squares
Class 36	Project 6- Extended kalman filter
Class 37	Motion planning - Map :Mapping for planning
Class 38	Motion planning - Map- Populating occupancy grids from LIDAR scan data
Class 39	Motion planning - Mission:Dijkstra's Shortest Path Search
Class 40	Motion planning - Mission: A* Shortest Path Search
Class 41	Motion planning - Dynamic object: Motion Prediction
Class 42	Motion planning - Dynamic object: Map-Aware motion prediction
Class 43	Motion planning - Dynamic object: Time to Collision
Class 44	Sensor fusion - Loss of One or More Sensors
Class 45	Project 7- Kidnapped vehicle