

Curriculum

Classification	Subject No.	Subject Name	Lecture:Exp.:Credit (Homework)	Semester	note
Common Course	CC522	Introduction to Instrumentation	2:3:3(6)	Fall	
	CC513	Engineering Economy and Cost Analysis	3:0:3(6)	Spring	
Required Major Courses	AT501	Structural Analysis in Statics and Dynamics	3:0:3(6)	Spring	&
	AT502	Thermodynamics and Fluid Flow	3:0:3(6)	Spring	
	AT503	Analog Electronic Engineering	3:0:3(6)	Spring	
	AT504	Digital Electronic Engineering	3:0:3(6)	Spring	
	AT505	Automobile Mechatronics	3:0:3(6)	Fall	
Selective Major Courses	AT511	Introduction to Fuel Cell and Hybrid Vehicles	3:0:3(6)	Fall	**
	AT512	Finite Element Analysis for Structures	3:0:3(6)	Fall	
	AT513	Endurance Reliability	3:1:3(6)	Spring	
	AT514	Vehicle Dynamics and Control	3:1:3(6)	Fall	
	AT531	Automobile Power Electronics Systems	3:0:3(6)	Fall	
	AT532	Control System Design for Automobile	3:0:3(6)	Fall	
	AT551	Experiment Design and DFSS	3:0:3(6)	Fall	
	AT552	New product Development and Project management	3:1:3(6)	Spring	
	AT611	Powertrain System	3:1:3(6)	Spring	
	AT612	Vehicle NVH (Noise, Vibration, and Harshness)	3:0:3(6)	Spring	
	AT613	materials and Processes of Automobile Manufacturing	3:0:3(6)	Spring	
	AT631	Automobile Sensors and Telemetry	3:0:3(6)	Spring	
	AT632	Intelligent Vehicle Control System	3:0:3(6)	Spring	+EE682
	AT633	Automobile Embedded System Programming	3:0:3(6)	Spring	+EE516
	AT651	Product Data management/Product Lifecycle Management	3:1:3(6)	Fall	*IE553
	AT698	Automobile Special Topics in Mechanical Engineering	3:0:3(6)	Spr/Fall	
AT699	Automobile Special Topics in Electrical Engineering	3:0:3(6)	Spr/Fall		
Research	AT960	M.S. Thesis	0:12:6	Spr/Fall	&&
	AT962	Industry Training	0:10:1	Smr/Wnt	
	AT963	Project I	0:6:3	Sspr/Fall	
	AT964	Project II	0:6:3	Sspr/Fall	
	AT965	Individual/Group Study in M.S.	0:6:1	Sspr/Fall	
	AT967	Automobile Technology Seminar	1:0:1	Sspr/Fall	

*: Substitute courses

** : B.S. and M.S. commonly approved courses

+: Substitute courses that can not be taken twice both for Automobile Technology Electrical Engineering selective courses.

&: Graduate students from other departments need approval from the affiliated department to get the credits

&&: More than 4 weeks during summer and/or winter breaks