

Compulsory Courses

Course No.	Course Title	Credit Hrs
AU 500	Advanced Automotive Engineering	03
AU 501	IC Engine Thermodynamics	03
AU 502	Advanced Vehicle Dynamics	03
AU 503	Automotive Control Systems	03
AU 504	Automotive Materials & Manufacturing	03
TE 505	Advanced Statistics	03

Elective Courses

(A) For Specialization in Automotive Design

Course No.	Course Title	Credit Hrs
AU 520	Automotive Powertrains	03
ME 551	Introduction to Computational Fluid Dynamics	03
ME 503	Computer Aided Design	03
AU 521	Vehicle Aerodynamics	03
AU 522	Mechatronics in AE	03
AU 523	Emissions and Exhaust Control	03
ME 504	Finite Element Analysis	03
AU 525	Noise, Vibrations and Harshness	03
AU 526	Sensors and Actuators	03
AU 527	Fluid Power Systems and Control	03
AU 528	Lubrication	03

(B) For Specialization in Automotive Manufacturing

Course No.	Course Title	Credit Hrs
IM 505	Automated Manufacturing Systems	03
IM 501	Supply Chain Management	03
IM 515	Agile and Lean Manufacturing	03
IM 503	Maintenance Management	03
ME 524	Reliability & Quality Engineering	03
EM 504	Project Management Framework & Tools	03
IM 513	Six Sigma Methodologies	03
ME 527	Human Factor Engineering	03
MM 539	Corrosion Engineering	03
MM 538	Polymer Engineering	03
MM 540	Modern Composites Materials	03