

ME 416 : Automotive Engineering

This course teaches the fundamentals of Internal Combustion engines, its classifications and applications, as well as design and operating parameters. Topics include the thermodynamic analysis of fuel-air cycle, firing order, concept of combustion process in SI engines, Scavenging and design aspects of SI engines, supercharging and turbocharging, lubrication system, engine cooling system and engine heat transfer, fuel injection system in SI engines, Compression Ignition (CI) engines, conventional and non-conventional fuels in SI and CI engines.

Credits 3

Lab Hours 0

Lecture Hours 3

Tutoring Hours 0

Prerequisites

ME 307