



Course Name	Automobile Structure and Principle
Course Director	Feng Ying, Gao Wei, Kang Yuanchun
Major	Mechanical Engineering, Automotive Engineering
Objective	The objective of this course is to let the students master the structures and principles of engine and chassis, and know the newest progress in automotive technology; The task of this course is to let the students master the primary automobile structures of home and abroad and gain the ability of analyzing other automobiles' structure, the movement, forces and performance of automobile and main components; This course also improves the students' language communication ability in special English.
Semester	6th
Language	English
Learning/Teaching methods	Teach with the help of real components, drawings, videos and flash; Teach the students how to analyze the structure and principle; Make the students infer other things from one fact.
Hour	48h
Credit	4.0
Prerequisite	Mechanical Graphic, University Physics, Engineering Chemistry, Mechanics
Content	<ol style="list-style-type: none"> 1. Overview(2h) 2. Engine(19h) 3. Power train(11h) 4. Running gear system(6h) 5. Steering system and braking system(6h) 6. Newest technology of automobile(4h)
Grade/Exam	Oral exam or written exam
Reference	<p>[1] Self-edited teaching material</p> <p>[2] The Automotive Chassis: Engineering Principles, ISBN 0 7506 5054 0</p>