



Engineering Program

Specialization	Autotronics
Course Number	2010231
Course Title	Automobile Electricity and Electronics Workshops
Credit Hours	1
Theoretical Hours	0
Practical Hours	3



❖ تطبق هذه الخطة الدراسية اعتباراً من بداية العام الجامعي 2009/2008



Brief Course Description:

Safety rules and standards in Autotronics workshops. Use of SCAN tools for testing and inspection of modern cars.

Course Objectives:

Upon the completion of this course, the student will be able to:

1. Inspect and test different systems in modern cars
2. Use SCAN Tools in testing and inspection



Detailed Course Outline:

Unit Number	Unit Title	Unit Content	Time Needed
1.	Safety in Autotronics workshops	<ul style="list-style-type: none"> ▪ Personal safety ▪ Tools safety ▪ Universal hand tools ▪ Special tools 	
2.	Ignition system testing	<ul style="list-style-type: none"> ▪ Single point ignition ▪ Multiple point ignition 	
3.	Sensors system	<ul style="list-style-type: none"> ▪ Disassembly/ assembly and diagnoses and repair all sensors ▪ Use SCAN tools 	
4.	Diesel engine	<ul style="list-style-type: none"> ▪ Diagnoses and testing ▪ Use SCAN tools 	
5.	ABS system	<ul style="list-style-type: none"> ▪ Diagnoses and testing ▪ Use SCAN tools 	
6.	Air conditioning system	<ul style="list-style-type: none"> ▪ Diagnoses and testing ▪ Use SCAN tools 	
7.	SCAN tools OBD1, OBD2 systems	<ul style="list-style-type: none"> ▪ Diagnoses and testing ▪ New car technology 	

Evaluation Strategies:

Exams		Percentage	Date
Exams	Midterm Exam	20%	
	Reports	30%	
	Final Exam	50%	

Teaching Methodology:

- ❖ Workshops

Text Book

1. Instructional materials and Lab. Sheets prepared by Instructor



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