



Module (Course Syllabus) Catalogue 2026-2027

College/ Institute	Erbil Technology College					
Department	Automotive Technique					
Module Name	Automotive Computer Control I					
Module Code	ACC601					
Degree	Technical Diploma	<input type="checkbox"/>	Bachelor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	High Diploma	<input type="checkbox"/>	Master	<input type="checkbox"/>	PhD	<input type="checkbox"/>
Semester	6					
Qualification	PhD					
Scientific Title						
ECTS (Credits)	5					
Module type	Prerequisite	<input type="checkbox"/>	Core	<input checked="" type="checkbox"/>	.Assist	<input type="checkbox"/>
Weekly hours	4					
Weekly hours (Theory)	hr class (2)					
Weekly hours (Practical)	hr Workshop (2)					
Number of Weeks	12					
Lecturer (Theory)	Sazan Ali Kamal Mohammed					
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Lecturer (Practical)	Sarwen, Jwan					
.E-Mail & Mobile NO						
Websites						

Course Book

<p>Course Description</p>	<p>The purpose of this course is to promote learning about the vehicle Electric and electronic control system field and technology which involves growing sectors with the increasing demand of vehicles, understanding the vehicle computer system component implications in the following course concept areas: Fundamentals, engines wiring, Ignition systems, Fuel system, transmission control system, ECU. Maintenance.</p>
<p>Course objectives</p>	<p>Upon completion of this course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Understand the variation of vehicle technology 2. Vehicle electric system and components. 3. Automotive Control system 4. Automotive Electric Engine Mechanic 5. Automotive Electrician 6. Vehicle electric wiring 7. Battery maintenance 8. Technical electrical fault 9. Digital dignosting 10. OBD gauge 11. Fault diagnostic using OBD <p>Diagnose, Adjust and repair Engine error systems.</p>
<p>Sstudent's obligation</p>	<p>The student must attend the hall for 2 hours and 2 hours in the shop abidance the lecturer's instruction wherein early attendance and bringing requisite tools and keeping the hall clean and protecting furniture.</p>
<p>Required Learning Materials</p>	<p>To avoid students being bored in the hall lecturer uses several tools, whiteboard, data show, and other demonstration tools to interest students.</p>

Evaluation	Task		Weight (Marks)	Due Week	Relevant Learning Outcome
	Paper Review				
	Assignments	Homework	%5	2	
		Class Activity	%2		
		Report	%5	1	
		Seminar			
		Essay			
		Project	%5	1	
	Quiz		%8	4	
	.Lab		%10	6	
	Midterm Exam		%25		
	Final Exam				
Total					
Specific learning :outcome	<p>Upon the completion of this course, students will be able to complete the following:</p> <ol style="list-style-type: none"> 1. Automotive wiring Maintenance Skill 2. Automotive Engine Electric 3. Automotive Transmission electric system Skill 4. Diagnosis and repair using OBD 5. Wiring skill 6. Will demonstrate an understanding of ABS systems. 7. Research and validate appropriate service information about vehicle electrical controlling systems. 				
Course :References	<ol style="list-style-type: none"> 1. Automotive Electricity And Electronics 2. Automotive Computer Controlled Systems 3. internet 				
Course topics (Theory)				Week	Learning Outcome
Introduction to Automotive Electrical and Electronic Systems				1	1
Basic Theories.				2	1
Electrical and Electronic Components, Sensors				3	2

