

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the program specification.

1. Teaching Institution	Middle Technical University
2. University Department/Centre	Machinery and equipment Technical / automotive branch
3. Course title/code	Automobiles electricity/2
4. Programme(s) to which it contributes	Laboratories
5. Modes of Attendance offered	Compulsory Weekly hours
6. Semester/Year	yearly
7. Number of hours tuition (total)	90 hours
8. Date of production/revision of this specification	23/11/2016
9. Aims of the Course	Department of Machinery technologies / Automotive branch aims to prepare technical staffs that are a link between Specialist and technician The department prepares and create graduate and provide theoretical and practical information The process is to be able to implement the business entrusted to him .

10. Learning Outcomes, Teaching ,Learning and Assessment Method

A- Knowledge and Understanding

- A1- It recognizes the basic electric auto accessories concepts.
- A2- students are trained and applied the concepts studied theoretically.
- A3- students are trained on the skills required
- A5- making all students understand the theory and practical of automobiles electricity .
- A6- the possibility of using computer software that will related at this field.

B. Subject-specific skills

- B1 - skills in the repair and maintenance of automobiles workshops (machinery unit laboratories and workshops)
- B2 - An increase in job skills in the use new technologies and software that we can say it's very useful at this field.
- B3 - An increase in acts of skills.
.Students acquire practical for electric motor skill
- B4- Students acquire practical skill in examining breakdowns own
.generators and organizations for technics mainstream
- B5- Student acquires for skill on how to service and maintenance of the ignition system
- B6- Student getting on electrical devices which help him recognize in the car.

Teaching and Learning Methods

- 1 -Lectures 2. systematic training 3-laboratories 4- Summer Training
- 5-workshops

Assessment methods

- 1- experimental tests examinations 2. Quarterly 3- final exam 4- oral tests
- 5- daily tests

C. Thinking Skills

- C1- Increase the student's desire to competence through the development of the relationship with the department
- C2- Developing the relationship between the student and the lecturer and the article by explaining the scientific article modern methods
- C3- Development of the relationship between the student and technical staff through the use of educational models

Teaching and Learning Methods

1–Lectures 2- laboratory 3-mechanical workshops 4- systematic training
5-summer training

Assessment methods

1-Written tests 2 -quarterly examinations 3-final examinations 4- Education
5-daily oral tests

11. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1-2	1Th+2Prac.	Student teaching how to understand the lesson	Charging circuit in the vehicle, which includes the DC generator and regulator and battery	Theoretical + practical	Test + practical
3	1Th+2Prac.	Student teaching how to understand the lesson	Maintenance of the generator DC and diagnose faults which related for it	Theoretical + practical	Test + practical
4	1Th+2Prac.	Student teaching how to understand the lesson	DC power regulator, its parts work, diagnosis it faults	Theoretical + practical	Test + practical
4	1Th+2Prac.	Student teaching how to understand the lesson	Alternator current generator AC, its parts and the principle of work	Theoretical + practical	Test + practical
5	1Th+2Prac.	Student teaching how to understand the lesson	Common faults of the alternator and methods of diagnosis and repair and the statement of fur khat between DC and AC generators	Theoretical + practical	Test + practical
7	1Th+2Prac.	Student teaching how to understand the lesson	What is the current AC organizations and how they work and the statement of sorts	Theoretical + practical	Test + practical
8-9	1Th+2Prac.	Student teaching how to understand the lesson	Regular ignition system (battery - the master key - Ignition - file sparks distributor - Plug (Wire	Theoretical + practical	Test + practical
10-11	1Th+2Prac.	Student teaching how to understand the	Service and maintenance of the ignition system (check ignition coil - condenser - distributor ignition	Theoretical + practical	Test + practical

		lesson	(sparks.		
12	1Th+2Prac.	Student teaching how to understand the lesson	Use device (Aloosaluscob) to check the ignition system	Theoretical + practical	Test + practical
13	1Th+2Prac.	Student teaching how to understand the lesson	Regulator voltages and current private screening device	Theoretical + practical	Test + practical
14	1Th+2Prac.	Student teaching how to understand the lesson	Use the electric device to check the validity of the distributor	Theoretical + practical	Test + practical
15	1Th+2Prac.	Student teaching how to understand the lesson	Use the spark timing device and its applications and adjust the spark	Theoretical + practical	Test + practical
16	1Th+2Prac.	Student teaching how to understand the lesson	The use of radiation device to analyze exhaust infrared and learn spark sparks the validity of the system and finding errors	Theoretical + practical	Test + practical
17-18	1Th+2Prac.	Student teaching how to understand the lesson	Electronic ignition system	Theoretical + practical	Test + practical
19	1Th+2Prac.	Student teaching how to understand the lesson	Lighting system (main (and side and internal	Theoretical + practical	Test + practical
20	1Th+2Prac.		Device side reference chopping - lighting-mail clip - scanner glass device - electric fuel pump with the low pressure and high pressure	Theoretical + practical	Test + practical

21	1Th+2Prac.	Student teaching how to understand the lesson	Lighting crashes front and back and side interior lamps system	Theoretical + practical	Test + practical
22-23	1Th+2Prac.		Electrical assistive devices in the car (fuel gauge - oil pressure gauge - engine temperature gauge - charging current scale	Theoretical + practical	Test + practical
24-25	1Th+2Prac.	Student teaching how to understand the lesson	Secondary circuit in the car (alarm circuit - and side Quartet signal circuit - scanner glass circle - the radio circuit (and the Registrar	Theoretical + practical	Test + practical
26	1Th+2Prac.	Student teaching how to understand the lesson	An electrical circuit to control the doors and windows of the car	Theoretical + practical	Test + practical
	1Th+2Prac.	Student teaching how to	Air conditioner in the car heaters and hot	Theoretical + practical	Test + practical

12. Infrastructure

		Student teaching how to understand the lesson	neating wires (electrical (system		
28	1Th+2Prac.	Student teaching how to understand the lesson	Warning device in the car and electronic control system	Theoretical + practical	Test + practical
29	1Th+2Prac	Student teaching how to understand the lesson	The use of modern devices (computer) to check the functioning of the car's engine performance	Theoretical + practical	Test + practical
30	1Th+2Prac	Student teaching how to understand the lesson	Sensors used in the car (rear sensors "Radar" - the vehicle's speed sensors - Sensors R / P / M rotational speed of the engine - the idea for controlling the steering wheel, "the airbag, (radio control device	Theoretical + practical	Test + practical

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Textbooks countable by the Technical Education
Special requirements (include for example workshops, periodicals, IT software, websites)	Adoption of teaching on external sources + methodology in the preparation of lectures
Community-based facilities (include for example, guest Lectures , internship , field studies)	Adoption of teaching magazines and Reference article studied and reported by students

13. Admissions	
Pre-requisites	
Minimum number of students	60
Maximum number of students	90

Saddam Hasan Raheemah
The Lecturer of Subject

Sha'alan Ghannam Aflok
The Head of Automotive
Department