

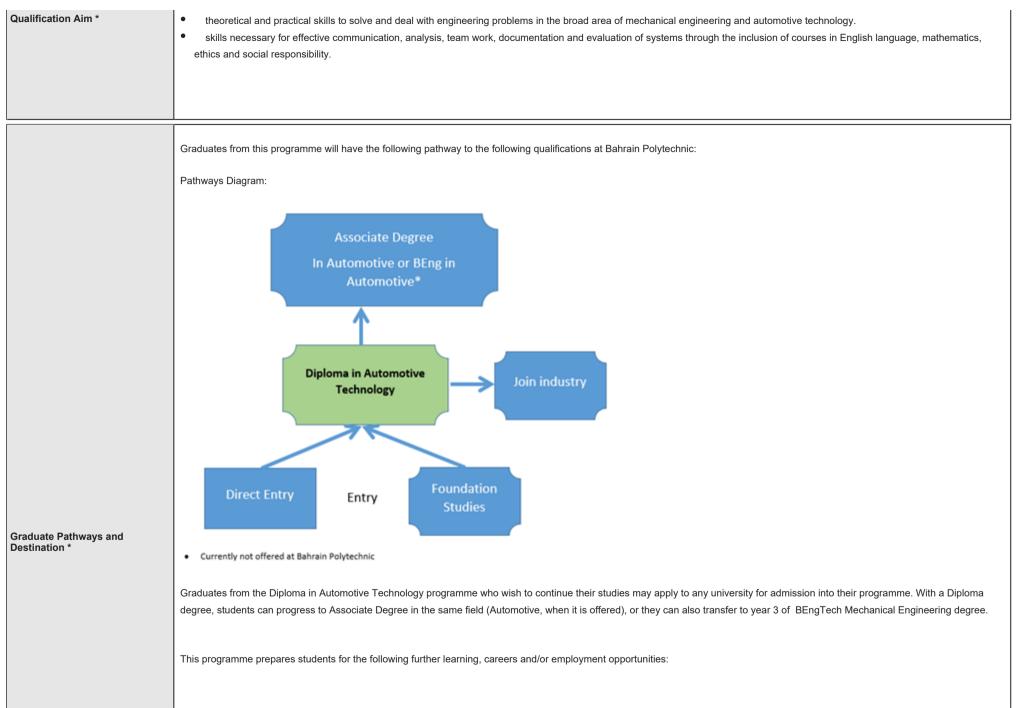
# Diploma in Engineering Technology (Automotive Technology) Faculty of EDICT (Engineering,Design and ICT)

Programme Title (Arabic)	تابىكرما تونۇت يە جولبىدا								
Acronym / Abbreviation *	DEngTechAuto								
Nature	Specialisation								
Programme Code	ENT6100 P	ogramme Duration	2 Year/Cycle		Programme Level		Level 6		
Programme Credits	240 A	ward Category	Diploma		]				
Effective From	2023/2024 Sem 1								
Owner	School of Engineering								
Professional Body									
Professional Body	Recognition Status	Effective From	Interim Date	Profession	nal Bodies	Conta	ct Person	Evidence	
Employability Skills	Yes	23/01/2023		Employab	bility Skills				
Target Groups *									
High School Graduates									
International Students									
People in Employment									
Other									
Qualification Completion Requirements Criteria	Awarded where candidates have m <ul> <li>Successful completion of, o</li> <li>Completion of work experies</li> <li>Completion of National Red</li> </ul>	or exemption from, all courses lis		f courses.					
	The Diploma in Automotive Technology Programme is a two years qualification at NQF level 6. The qualification is designed after extensive interaction with the Bahrain Engineering environment and society, in order to provide work-ready engineering technology graduates. The graduates will acquire technical knowledge in their field, specialized practical skills and valuable employability skills that will allow them to provide the drive for the transformation towards a knowledge-based economy in Bahrain.								

## Programme ENT6100 - Diploma in Engineering Technology (Automotive Technology) · 18 ويام 2024

Programme Overview *	The Diploma in Automotive Technology is delivered over a 2-year period consisting of 4 semesters. Students are expected to take 60 credits on average per semester and thus at the completion of their studies they should have accumulated a total of 240 credits. In those 240 credits, there exist 30 credits of English courses, 15 credit as National Requirement courses and the remaining 195 credits are taken from Core and Specialized Mechanical Engineering and Automotive Courses. Additionally, students are required to complete a total of 60 days of work placement. The Diploma in Automotive Qualification share the same common 1st year courses with other Engineering Technology qualifications, these courses lay the foundation of Engineering Technology and provide the students with the required knowledge to succeed in their chosen specialization.
Entry and Selection *	General entry requirements such as secondary school achievements, English and Mathematics as described in the Student Admission Policy A/AB/010. Specific entry requirements for this Programme, beyond those described in the Student Admission Policy are as follows:  Academic:  Successful completion of  AP4203 English 2 AP4102 Mathematics 2 (Technical) or  Passing English and Mathematics selection tests at the required level or equivalent.
Selection and Criteria and Process *	Where there are more applicants who meet the programme entry criteria than can be accepted, the following shall be used: Selection Criteria Successful completion of the Foundation Program at Bahrain Polytechnic and demonstration of a commitment to study Results from programme entry tests. Work experience and prior educational achievement. Selection Process

	Applicants may be required to attend an interview.
Major Selection Criteria *	None
Accreditation / External Approval Requirements *	None
Attendance Requirements *	Attendance requirements are described in the policy Student Attendance A/AB/006.
Qualification Overview *	The Diploma in Automotive Technology qualification is a 2-year (4-semesters) programme and is a technically strong qualification. It is the first of its kind in the kingdom of Bahrain as no similar program has been offered yet in Bahrain. The programme has a wide base of Mechanical Engineering knowledge and technical skills in the first year and fundamental Automotive specialized courses upon which graduates can build to reflect the wide range of fields and industries that are present locally and regionally. This qualification emphasizes on solid mechanics, mechanical fundamentals, thermodynamics, and automobile technology to suit the current requirements in the Automobile Industries. Students gain theoretical knowledge and specialist practical skills in the areas of Mechanics (static and Dynamic), workshop practice, thermodynamics. Students are introduced to software packages such as 3-Dimensional modelling software (SolidWorks). In the second year, students are given specialised courses that cover the main areas of automotive technology such as Automobile Powertrain and Chassis, Internal Combustion Engines, and Automobile Electrical and Electronics Systems.
	The aim of this programme is to provide students with essential set of knowledge and skills for employment as Automotive technician/engineering profession in dealing with automobile maintenance/repair, troubleshooting and fault diagnoses of vehicles using latest technologies in the field of automotive The programme will provide students with:



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Automotive major:
Auto technician
Auto electrician
Service advisor
Auto sales
Spare part sales
Spare part management
Accident estimator
Auto trainer/instructor

	Skills	Generic Definition
	Communication	Communicate in ways that contribute to productive and harmonious relationships across employees and customers.
	Teamwork	Work effectively independently and in collaboration with others.
	Problem solving	Think critically and respond appropriately to changing needs within a growing and diversifying economy.
Other Information *	Initiative and enterprise	Apply resourcefulness, innovation and strategic thinking to a range of workplace situations.
	Planning and organization	Plan and manage their working lives.

Self management	Demonstrate self discipline and adaptability, and be able to plan and achieve personal and professional goals
Learning	Understand the need for and engage with continuous learning throughout the lifespan.
Technology	Utilize information technology effectively and ethically in their personal and professional lives

#### **Programme Learning Outcomes**

On successful completion of this programme the learner will be able to :

# Description

Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialisation to deal with defined and applied engineering procedures, processes, systems or methodologies.

Identify and commit to professional ethics, responsibilities and norms of engineering technology practice.

Demonstrate detailed knowledge of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to engineering technology practice.

Device solutions for broadly-defined automotive technology problems to meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

Select and apply appropriate techniques, resources, and modern engineering tools, including prediction and modeling tools, to broadly-defined engineering activities, with an understanding of their limitations.

Practice as a professional using 21st century skills

Solve practical problems in specific automotive engineering settings using sound analytical, industrial, laboratory, and time-management skills.

Apply techniques and skills to carry out appropriate automotive industrial procedures in repair and maintenance of vehicles.

Operate modern equipment and electronic devices used in Automotive workshops and labs

Analyze vehicle system's performance, diagnose faults and recommend actions needed to rectify problems

Communicate effectively to convey and interpret information related to Automotive Technology Systems

# **Semester Schedules**

## Year 1 / Semester 1

Core	Core		
Course Code	Title		
EN6000	Electrical Fundamentals		
EN6990	Engineering Practice		
EL6001	English for EDICT 3		
EN6907	Mathematics for Engineers 1		

#### Year 1 / Semester 2

Core		
Course Code	Title	
EN6010	Engineering Computing Fundamentals	
EL6002	English for EDICT 4	
EN6914	Mathematics for Engineers 2	
EN6903	Mechanical Fundamentals	

#### Year 2 / Semester 1

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Core	Core		
Course Code	Title		
EN6904	Engineering Graphics		
EN6902	Engineering Mechanics 2		
NR			
NR National Requirements			
EN7919	EN7919 Thermodynamics		

Optional	Dptional	
Course Code	Title	
NR-Arabic	National Requirements- Arabic	

## Year 2 / Semester 2

Core	
Course Code	Title
ED7000	Applied Project
EN6101	Automotive Electrical and Electronics Systems
EN6102	Automotive Internal Combustion Engines
EN6103	Automotive Powertrain and Chassis Systems
EN0003	Industry Placement (Diploma)