APPROVED

Diploma in Web Development
Faculty of EDICT (Engineering,Design and ICT)

Programme Title (Arabic)	الدبلوم في تطوير مواقع الأنترنت

Acronym / Abbreviation *	DipWebDev

Nature	Specialisation

Programme Code	ICT6045	Programme Duration	2 Year/Cycle	Programme Level	Level 6

Programme Credits	240	Award Category	Diploma		

Effective From	2023/2024 Sem 1

Owner	School of ICT

Professional Body						
Professional Body	*Recognition Status*	*Effective From*	*Interim Date*	*Professional Bodies*	*Contact Person*	*Evidence*
Employability Skills	Yes	04/01/2021				

Target Groups *
High School Graduates
International Students
Unemployed
Other

| Qualification Completion Requirements Criteria | Awarded where candidates have met all of the requirements below:

- Successful completion of, or exemption from, all courses listed in Schedule A

and

- Accumulation of 15 credits of courses as a National requirement.

and

- Achieve the Bahrain Polytechnic General Qualification Requirements as documented in the naming and Awarding Qualifications policy

and

- Completion of courses to accumulate a minimum of 240 credits from any Bahrain Polytechnic Qualification; |
|---|---|

Programme Overview *	Bahrain Polytechnic has been established by the Bahrain Government to address the need for a skilled Bahraini workforce to support economic growth and development. To support the development of the workforce, Bahrain Polytechnic aims to produce graduates with applied, professional qualifications. It is widely acknowledged that Information Technology is a key sector and enabler for growth in any modern economy. The Diploma in Web Development qualification is placed at NQF level 6 where it is designed and delivered in order to provide work-ready graduates. The graduates will acquire the required technical knowledge in their respective fields, specialized practical skills and valuable employability skills that will allow them to work in roles such as full-stack developers, IT technicians, and UI/UX designers in Bahrain. The Diploma in Web Development is delivered over a 2-year period consisting of 4 semesters and 60 days of work placement. 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 minimum of 240 credits. Of those 240 credits, there exist 30 credits of English courses and the remaining 210 credits are taken from Core and Specialized ICT Courses, one course from another programme, and National Requirement Courses. Additionally, the students are required to complete a total of 60 work placement days.

Entry and Selection *	General entry requirements such as secondary school achievements, English, and Mathematics are described in the Student Admission Policy A/AB/010. Specific entry requirements for this qualification, beyond those described in the Student Admission Policy, are as follows:
	
	Applicants must demonstrate competence in English and in Mathematics. These requirements may be met by:
	
	• The successful completion of
	  • AP4203 English 2
	  • AP4102 Mathematics 2 (Technical) or similar
	• or passing English and Mathematics Selection Tests at the required level

	Where there are more applicants who meet the programme entry criteria than can be accepted, the following shall be used: • Selection Criteria • Preference will be given to students who have successfully completed the Foundation programmes at Bahrain Polytechnic and have clearly demonstrated an aptitude for ICT and a commitment to their study.

Selection and Criteria and Process *	- Results from programme entry tests will be used to select students with the highest likelihood of successfully completing the degree programme. - Selection Process - The School will determine on a yearly basis the seats available for each of the entry and selection categories. - Additionally, applicants may be required to attend an interview. - Consideration of work experience and prior educational achievement may be used.
Major Selection Criteria *	Not applicable
Accreditation / External Approval Requirements *	All the majors in the Bachelors of Information and Communication Technology majors have received the BCS - The Chartered Institute of IT UK accreditation. The new Diploma in web Development will be submitted for similar international accreditation, subject to the accreditation body's requirements and review.
Attendance Requirements *	Institutional attendance requirements are described in the policy Student Attendance A/AB/006. There are no programme specific attendance requirements.
Qualification Overview *	The qualification encompasses an initial four semesters of full-time academic years of study in the broad ICT disciplines at NQF levels 6, 7, and one NQF level 8 course, accompanied by experience in the industry through a 60 days placement. The intention is to build up core knowledge in a range of areas including web development, web design, databases and diagram design techniques in addition to programming. The Diploma in web development is an undergraduate degree offered to participants who are interested in furthering their education in the field of Database or web development. The qualification is a pathway for Junior college students and Foundation school students, as well as new entry students who want to specialize in the web development field; and determine ways that students can apply the knowledge to different domains based on their background and interests.

	Graduates of this qualification may also progress to further studies in the Database Major Associate degree or the Database Major Bachelor degree.
Qualification Aim *	The programme aims to develop work-ready, skilled ICT web developers who are aware of the legal, ethical and professional standards required to work both regionally and internationally. The web diploma graduates will have an awareness of the latest ICT techniques and technologies to be flexible in the workplace and adaptable in a rapidly changing web development field. The qualification also aims to expose graduates to a number of technologies, introducing them to professional certification routes that will further enhance their knowledge and specialisation.
Graduate Pathways and Destination *	Upon graduation from this qualification, graduates may fill any of the following positions: • Full Stack Developer • Web Designer • Web Analyst • UI/UX Designer • Content Strategist • IT Technician • Front End Developer • Back End Developer • SEO Specialist
	Empolyability Skills Generic Definition:

Communication	Communicate in ways that contribute to productive and harmonious relationships across employees and customers.

Other Information *	**Team work**	Work effectively independently and in collaboration with others.
	Problem solving	Think critically and respond appropriately to changing needs within a growing and diversifying economy.
	Initiative and enterprise	Apply resourcefulness, innovation and strategic thinking to a range of workplace situations.
	Planning and organisation	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
Demonstrate detailed knowledge and understanding of the latest Information and Communications Technology systems and techniques.
Recognize the professional, moral, and ethical issues involved in exploiting computer technology and be guided by appropriate professional, ethical and legal practices in a Bahrain context.
Recognize where database systems fit into the structure of a modern information system.
Create or implement appropriate Information and Communications Technology systems from design documents.
Design, implement and test solutions from a problem description to meet specific user requirements using several programming languages
Design graphical user interfaces that conform to usability standards
Use a variety of development environments and software development kits to develop programs for different target platforms.
Follow best practice, industry standards, professional ethics, diagram designing, programming and documentation conventions during the programming process.
Practice as a Professional using 21st Century Skills

Semester Schedules

Year 1 / Semester 1

Core	
Course Code	**Title**
IT6001	**Computer Systems**

IT6001	**Computer Systems**

EL6001	**English for EDICT 3**

IT6010	**Maths for Computing**

IT6004	**Unix Systems**

Year 1 / Semester 2

Core	
Course Code	**Title**
IT6008	**Computer Programming 1**

IT6005	**Database Systems 1**

EL6002	**English for EDICT 4**

WM6003	**Web Design**

Year 2 / Semester 1

Core	
Course Code	**Title**
IT7008	**Computer Programming 2**

IT7005	**Database Systems 2**

IT7010	**JS Frameworks**

IT6012	**Web Fundamentals**

Year 2 / Semester 2

Core	
Course Code	**Title**
ED7000	**Applied Project**

IT8415	**Database Programming 2**

NR	**National Requirements**

IT7405	**Web Development with Non-Relational Databases**

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