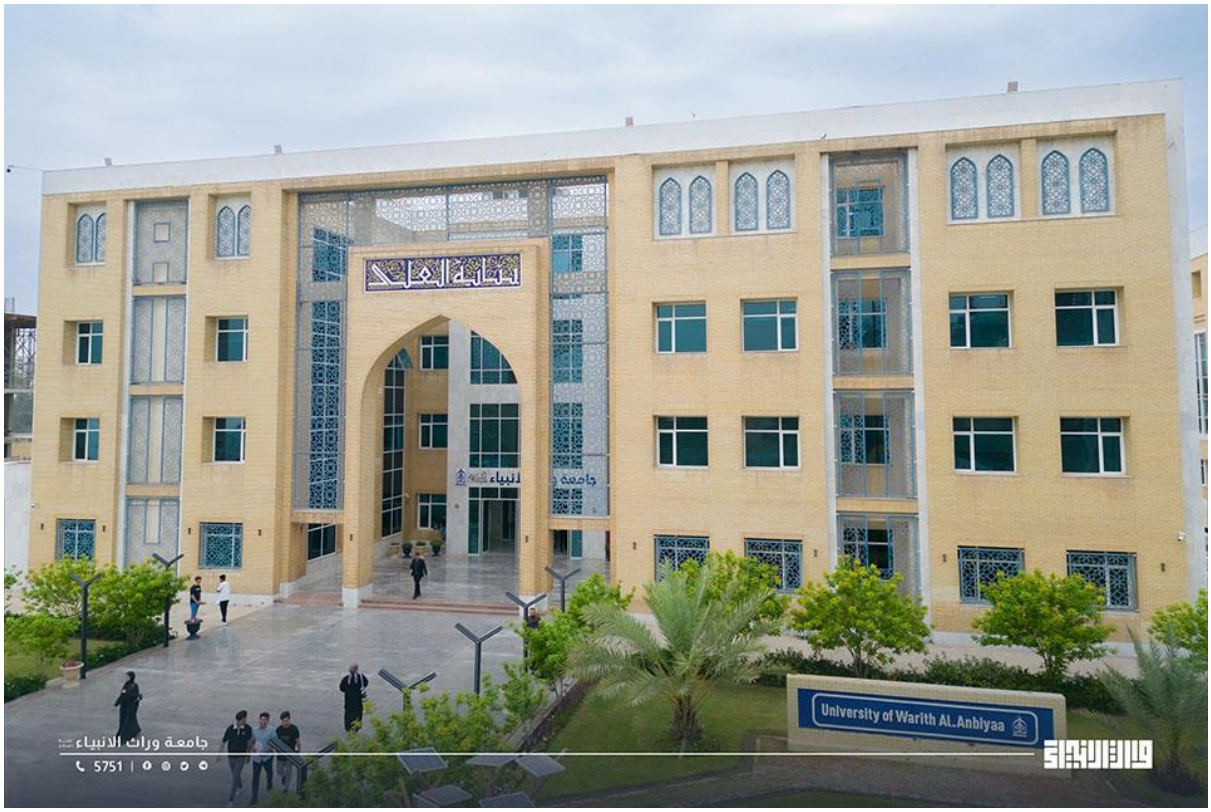
University of Warith Al-Anbiyaa

College of Advanced Technologies

First Cycle – Bachelor's degree (B.Sc.) –- Smart Digital Health Technologies



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1. Overview

This catalogue presents the courses (modules) offered by the Smart Digital Health Technology programme leading to the award of a Bachelor of Science degree. The programme delivers (xx) modules with a total student workload of (6000) hours and 240 ECTS credits. Module delivery and credit allocation are fully aligned with the Bologna Process, ensuring transparency, comparability, and compatibility with European higher education standards.

2. Undergraduate Courses 2026-2025

Module 1

Code	Course/Module Title	ECTS	Semester
DHTC103	**Digital Health Fundamentals and the Health Care System**	6	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
3	2	46	104
Description			
This module provides an academic introduction to the fundamentals of digital health and its role within modern health care systems. It explores core concepts such as electronic health records, telemedicine, mobile health, health information systems, data interoperability, and emerging digital technologies used to improve the quality, efficiency, and accessibility of health care services. The course also examines how digital health supports clinical decision-making, patient-centered care, health system management, and public health outcomes, while addressing ethical, legal, and data security considerations. Emphasis is placed on understanding the integration of digital health solutions into health care systems and their impact on patients, providers, and health organizations.			

Module 2

Code	Course/Module Title	ECTS	Semester
UOW1001	**English 1**	2	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
3	/	45	5

Description
This module introduces the fundamental principles of digital health and explains how digital technologies are applied within contemporary health care systems. It examines key components such as electronic health records, telemedicine, mobile health technologies, health information systems, data management, and interoperability. The module emphasizes the role of digital health in enhancing health care quality, efficiency, patient safety, and access to services, while also addressing ethical, legal, and data security considerations. Through this module, students gain an understanding of how digital health solutions support clinical practice, health system management, and public health outcomes.

Module 3

Code	Course/Module Title	ECTS	Semester
DHTC102	**Network fundamentals**	6	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	1	46	104
Description			
This module introduces the basic principles of computer networking, focusing on how data is transmitted, managed, and secured across networks. It covers fundamental concepts such as network types, network topologies, communication protocols, IP addressing, routing and switching, and the OSI and TCP/IP models. The module also provides an overview of network hardware components, including routers, switches, and servers, and introduces basic network security concepts. Emphasis is placed on understanding how networks support information systems and digital services, particularly in health care and organizational environments.			

Module 4

Code	Course/Module Title	ECTS	Semester
UOW1004	**Arabic 1**	2	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	/	30	20
Description			
This module aims to enhance students' Arabic language skills by developing their ability to recognize and avoid common grammatical and spelling errors. It focuses on correct writing rules,			

including ta' marbuta and ta' maftuha, alif mamduda and alif maqsurah, hamza rules, sun and moon letters, punctuation, numbers, and the distinction between similar letters such as dad and dha'. The module also strengthens grammatical understanding of nouns, verbs, objects, prepositions, nun and tanween, and their correct use in sentences. In addition, it introduces students to the principles and language of administrative correspondence, enabling them to understand and apply proper administrative writing styles in formal communication.

Module 5

Code	Course/Module Title	ECTS	Semester
UOW1003	**Computer I**	3	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	2	60	15
Description			
This module introduces students to the fundamental concepts of computers and information technology. It covers the basic components of computer systems, including hardware, software, operating systems, input/output devices, and storage. Students learn essential computer skills such as file management, word processing, spreadsheets, presentation tools, and internet usage. The module also emphasizes understanding basic computing terminology, digital literacy, and responsible use of technology, preparing students for further study and practical application in academic and professional settings.			

Module 6

Code	Course/Module Title	ECTS	Semester
DHTC100	**Physiology and Pathology**	6	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
3	1	60	90
Description			
This module provides an in-depth study of the functional changes that occur in the body as a result of disease or injury. It focuses on understanding how normal physiological processes are altered in various pathological conditions, including cardiovascular, respiratory, neurological, endocrine, renal, and immune system disorders. The module emphasizes the mechanisms of disease, the relationship between clinical manifestations and underlying cellular or organ-level dysfunction, and the integration of basic			

science knowledge with clinical practice. Students gain the ability to analyze disease processes, predict complications, and apply this understanding to patient care and health management.

Module 7

Code	Course/Module Title	ECTS	Semester
DHTC108	**Mathematics**	5	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
3	/	46	79
Description			
This module provides an introduction to fundamental mathematical concepts and techniques essential for problem-solving in academic and professional contexts. It covers topics such as algebra, functions, equations, inequalities, basic geometry, trigonometry, and introductory statistics. The module emphasizes logical reasoning, analytical thinking, and the application of mathematical principles to real-world problems. Students develop skills in computation, modeling, and interpreting quantitative information, which form the foundation for further studies in science, technology, and health-related disciplines.			

Contact

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