	Ministry of Higher Education and Scientific Research - Iraq University of Warith Al-Anbiyaa College of Advanced Technologies Department of Smart Digital Health Technologies	

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information		
Module Title	Digital Health Fundamentals and the Health Care System	**Module Delivery**
Module Type	C	☒Theory
Module Code	DHTC103	☒ Lecture
ECTS Credits	6	☒ Lab ☒ Tutorial
SWL (hr/sem)	150	☐ Practical ☐ Seminar

Module Level	1	**Semester of Delivery**	1
Administering Department	Smart Digital Health Technologies	**College**	Advanced Technologies
Module Leader	Ruaa Majeed Dawood	**e-mail**	roaa.majed@uowa.edu.iq
Module Leader's Acad. Title	Lecturer	**Module Leader's Qualification**	Ph.D.
Module Tutor	Ruaa Majeed Dawood	**e-mail**	roaa.majed@uowa.edu.iq
Peer Reviewer Name	Yusor Fadhil Alasadi	**e-mail**	yusor.fadhil.uowa.edu.iq
Scientific Committee Approval Date	24/1/2026	**Version Number**	1

Relation with other Modules
العلاقة مع المواد الدراسية الأخرى

Prerequisite module	NA	**Semester**	
Co-requisites module	NA	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	This module aims to provide students with a comprehensive understanding of the fundamentals of digital health and the structure of healthcare systems. By the end of this module, students will be able to: 1. Explain key concepts, tools, and technologies in digital health. 2. Understand the organization, functions, and challenges of modern healthcare systems. 3. Analyze the role of digital solutions in improving healthcare delivery, patient outcomes, and health management. 4. Evaluate ethical, legal, and security considerations in implementing digital health technologies. 5. Apply knowledge of digital health principles to practical scenarios within healthcare settings.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	By the end of this module, students will be able to: 1. Define and explain the core concepts of digital health and e-health. 2. Describe the structure and functions of healthcare systems at local and global levels. 3. Identify key digital health technologies and their applications in patient care. 4. Analyze the impact of digital health on healthcare delivery, quality, and efficiency. 5. Evaluate ethical, legal, and data privacy issues in digital health implementation. 6. Apply digital health tools and concepts to case studies or practical healthcare scenarios.
Indicative Contents المحتويات الإرشادية	Indicative Contents: • Introduction to Digital Health Definition, scope, and evolution of digital health

Key concepts: e-health, m-health, telemedicine, health informatics

- Healthcare Systems Overview

Structure and organization of healthcare systems

Roles of primary, secondary, and tertiary care

Public vs. private healthcare systems

- Digital Health Technologies

Electronic Health Records (EHRs) and Personal Health Records (PHRs)

Telemedicine and teleconsultations

Mobile health applications and wearable devices

- Health Data Management

Health data standards and interoperability

Data collection, storage, and analysis

Big data and artificial intelligence in healthcare

- Ethical, Legal, and Security Considerations

Patient privacy and data protection

Legal regulations in digital health

Ethical issues and professional responsibilities

- Digital Health Applications in Practice

Case studies on digital health interventions

Improving healthcare delivery and patient outcomes

Challenges and future trends in digital health

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

| **Strategies** | 1. Lectures: Presenting core concepts interactively with practical examples.
2. Tutorials and Workshops: Group sessions to apply concepts and solve practical problems.
3. Problem-Based Learning (PBL): Analyzing real-world scenarios and proposing digital health solutions.
4. Independent Study: Reading educational materials, conducting research, and completing exercises to reinforce understanding.
5. Assessment-Linked Activities: Quizzes, assignments, and presentations to monitor students' progress and comprehension. |

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	46	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	104	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	9
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation
تقييم المادة الدراسية

		Time/ Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10 % (10)	5,8	LO # 1, 4, 5, 7,8
	Assignments	1	10 % (10)	7	LO # 1-15
	Lab.	5	10 % (10)	2,4,6,8,10	LO # 1-2-3-15
	Report	2	10 % (10)	2,5	LO # 1-2-4-6-15
Summative assessment	Midterm Exam	2 hours	10 % (10)	9	LO # 1-15
	Final Exam	3 hours	50% (50)	16	All
Total assessment			100% (100 Marks)		

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	WHO – Digital Health World Health Organization. Digital Health. Geneva: WHO; 2023 [cited 2026 Jan 23]. Available from: https://www.emro.who.int/ar/noncommunicable-diseases/digital-health/digital-health.html Textbook of Digital Health	No

Hersh WR, Totten AM, Eden KB, et al. Textbook of Digital Health. 1st ed. New York: McGraw-Hill; 2021. Available from: https://textbookofdigitalhealth.com/?utm_source=chatgpt.com

Digital Future of Healthcare

Dey N, Das N, Chaki J, editors. Digital Future of Healthcare. Boca Raton, FL: CRC Press; 2022. Available from: https://www.routledge.com/Digital-Future-of-Healthcare/Dey-Das-Chaki/p/book/9781032057040?utm_source=chatgpt.com

The Lancet Digital Health

The Lancet. The Lancet Digital Health. [Internet]. 2019–2026 [cited 2026 Jan 23]. Available from: https://www.thelancet.com/journals/landig/home

Grading Scheme
مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	**A -** Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX –** Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

Lecturer

Ruaa Majeed Dawood

Date: 24/1/2026

Head of department

Ruaa Majeed Dawood

Date: 24/1/2026