



Academic Program Specification Template
Approved based on the twinning agreement with
the University of Karbala
College of Computer Science and Information Technology



University Name: Warith Al-Anbiyaa

College/Institute: College of Computer Science and Information Technology

Academic Department: Information Technology Department

Academic or Professional Program Name: Bachelor of Computer Science and Information Technology

Study System: Bologna Process

Date of Specification Preparation: 18/9/2026

Date of Form Completion: 19/9/2026

Signature:

Head of Department Name: Asst. Prof. Dr Hayder Mohammed Ali Al-Ghanimi

Date: 19/9/2026

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Date: 19/9/2026

Signatur:

Dean's Appro





University of Warith AL-Anbiaa جامعة وارث الأنبياء



First Batch: Bachelor's degree (B.Sc.) – Information Technology

الدفعة الأولى: بكوريوس علوم الحاسوب وتكنولوجيا المعلومات
قسم تكنولوجيا المعلومات.



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Table of Contents

Mission & Vision Statement .1	بيان المهمة والرؤية
Program Specification .2	مواصفات البرنامج
Program (Objectives) Goals .3	أهداف البرنامج
Program Student learning outcomes .4	مخرجات تعلم الطالب
Academic Staff .5	الهيئة التدريسية
Credits, Grading and GPA .6	الاعتمادات والدرجات والمعدل التراكمي
Modules .7	المواد الدراسية
Contact .8	اتصال

1. Mission and Vision Statement

Vision Statement

Our vision is to empower and inspire the next generation of IT professionals by providing a comprehensive and transformative university education that fosters innovation, excellence, and leadership in the field of information technology.

We aspire for the Information Technology Department to be a leader in delivering advanced curricula and practical experiences that empower students to acquire the knowledge, skills, and mindset needed to succeed in a rapidly evolving technological landscape. Our graduates will be at the forefront of innovation, driving technological progress and helping to shape the future of information technology.

Through a student-centered approach, we strive to foster a culture of collaboration, critical thinking, and problem-solving, while encouraging students to explore their passions and embrace interdisciplinary perspectives. We are committed to creating an inclusive and diverse learning environment that celebrates individuality and respects diverse ideas and backgrounds.

Our department also aims to establish strong ties with industry partners by fostering fruitful collaborations and practical training opportunities that bridge the gap between academic education and real-world IT challenges. Through these close connections, we ensure that our curricula remain up-to-date and responsive to the evolving needs of the IT industry.

Furthermore, we aspire for the Information Technology Department to contribute to the community by graduating professionals who possess not only technical competence but also a commitment to ethical values and social responsibility. We instill in our students the principles of ethical conduct, information security awareness, and the importance of privacy protection, preparing them to contribute to the ethical use of technology.

Ultimately, we aspire for the Information Technology Department to be recognized globally as a leading department that produces graduates distinguished by their expertise, leadership capabilities, and commitment to shaping a better digital future. We are dedicated to empowering our students to excel in their careers, make meaningful contributions to society, and drive positive change through the transformative power of information technology.

Mission Statement

The mission of the Information Technology Department's undergraduate program is to provide a comprehensive and rigorous educational experience that prepares students for successful careers in the dynamic and ever-evolving field of information technology. We are committed to delivering high-quality education, fostering innovation, and building a community of lifelong learners.

Our primary goal is to provide students with a solid foundation of technical knowledge and practical skills in the field of information technology. Through a curriculum that integrates theory and practice, we aim to develop student proficiency in areas such as programming, software development, database management, networking, cybersecurity, and emerging technologies.

We are committed to providing a student-centered learning environment that emphasizes active participation, critical thinking, and problem-solving. Our faculty members—experts in their respective fields—deliver effective instruction and provide guidance and mentorship to students. We also foster an inclusive and supportive environment that values diversity, encourages collaboration, and nurtures creativity.

As the information technology industry constantly evolves, we continuously review and update our curricula to keep pace with modern trends and technologies. We strive to build partnerships with industry leaders, professional organizations, and research institutions to ensure our students gain relevant, real-world knowledge and practical experience. We also encourage students to engage in experiential learning opportunities, internships, and industry projects to bridge the gap between theory and practice.

Ethics and social responsibility are fundamental components of our mission. Therefore, we emphasize the importance of ethical conduct, privacy protection, and information security awareness within our curricula. We aim to instill a spirit of professional integrity and responsibility in our students, empowering them to utilize technology in an ethical and socially responsible manner.

We are committed to fostering a mindset of continuous learning among our students, encouraging them to pursue professional development and adapt to the rapid changes in the field of information technology. We also aim to prepare graduates who will be leaders, innovators, and enduring contributors to the information technology community.

In fulfilling our mission, we aspire to graduate well-rounded information technology professionals who possess the knowledge, skills, and ethical framework necessary to make a tangible impact on the industry and society, and to drive technological progress for the benefit of humanity.

2. Program Specifications

Program Code	BSc-IT	Number of units	240
Duration	Four levels, 8 chapters	Attendance Method	Full-time

3. Program Objectives

1. Graduates are well-qualified to pursue a professional career in the field of information technology.
2. Ability to apply information technology principles to solve real-world problems.
3. Guiding technology decisions to ensure alignment with modern business trends.
4. Possessing the skills that enable graduates to work effectively within organizations and make positive contributions to the field of information technology.
5. Engaging in continuous learning and lifelong professional development.
6. Ability to communicate effectively as an IT professional with users, colleagues, and senior management.
7. Working effectively within teams, whether as a member or a leader.
8. Understanding the ethical, professional, and social issues related to the profession.
9. Demonstrating ethical behavior as an IT professional and awareness of the impact of technology on society.
10. Successfully pursuing and completing graduate studies, if the student so desires.

4. Student Learning Outcomes

First Output: Design / Development of Solutions

- Analyze complex computing problems and apply principles of computing and other relevant disciplines to identify appropriate solutions.
- Design, implement, and evaluate a computing-based solution that meets computing requirements within the context of the program's specialization.
- Select and apply modern techniques, skills, and tools necessary to develop and bring to market integrated IT-based solutions.

Second Output: Conducting research to meet modern market requirements.

- Identify and analyze user needs to inform the selection, creation, integration, evaluation, and management of computing-based systems.
 - Ability to engage in lifelong learning and continuous professional development to keep pace with rapid changes in modern technologies.
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Third Outcome: Information Technology and Society (IT and Society)

- Analyze the local and global impact of computing technologies on individuals, organizations, and society.
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Fourth Outcome: Individual and Teamwork

- Work effectively as a team member or leader to achieve a common goal within a multidisciplinary team.
 - Communicate effectively in a variety of professional contexts.
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The Fifth Outcome: Ethics

- Recognize professional responsibilities and make informed decisions in computing practices based on legal and ethical principles.
 - Apply ethical principles and responsibilities during professional practice.
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Sixth Outcome: Critical Thinking

- Graduates' ability to use critical thinking and problem-solving skills to develop a research project and/or research paper.
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5. Academic Staff

الاسم	الدرجة العلمية	الرتبة الأكاديمية	البريد الإلكتروني
حيدر محمد علي الغانمي	دكتوراه	أستاذ مساعد	hayder.alghanami@uowa.edu.iq
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6. Credit Hours, Assessment, and Grade Point Average (GPA)

Grade Distribution Plan				
Assessment	Appreciation %	Appreciation	Grade	المجموعة
Excellent performance	90 - 100	Distinction	A - Excellent	Passing Total (50 – 100)
Above average with some errors	80 - 89	Very Good	B - Very Good	
Good work with noticeable errors	70 - 79	Good	C – Good	
Acceptable but with significant shortcomings	60 - 69	Average	D - Acceptable	
Work meets minimum standards	50 - 59	Acceptable	E - Sufficient / Satisfactory	
Requires further work but the student is awarded the grade	(45-49)	Fail (Under Review)	FX - Fail (Pending Review)	Failing Total (49 – 0)
Requires a substantial amount of work	(0-44)	Fail	F - Fail	
Note: Decimal marks will be rounded to the nearest whole number (e.g., a score of 54.5 will be rounded up to 55, while a score of 54.4 will be rounded down to 54). The university maintains a policy of not adjusting failing grades that are close to a passing mark; therefore, the only modification to the marks awarded by the original grader(s) will be the automatic rounding described above.				

7. Curriculum / Courses

Semester 1 | 30 ECTS credits | 1 ECTS = 25 hours

Symbol	Course Name	SSWL	USSWL	ECTS	Type	Prerequisite
IT104	Programming Fundamentals I	78	97	7	C	—
IT103	Computer Organization	63	87	6	C	—
IT101	Information Technology Fundamentals	48	52	4	C	—
IT102	Digital Logic	63	87	6	C	—
IT105	Calculus I	48	77	5	C	—
UOWA103	Arabic Language	33	17	2	S	—
Total		333	417	30		

Second Semester (Semester 2) | 30 ECTS credits | 1 ECTS = 25 hours

Symbol	Course Name	SSWL	USSWL	ECTS	Type	Prerequisite
IT112	Systems Administration	63	112	7	C	IT111
CSIT102	Calculus II	48	77	5	B	CSIT101
CS104	Programming Fundamentals II	78	97	7	C	CS102
CSIT104	Discrete Structures	48	102	6	B	—
UOWA102	English Language I	33	42	3	S	—
UOWA103	Human Rights and Democracy	33	17	2	S	—
Total	Course Name	270	430	30		

Semester 3 | 30 ECTS credits | 1 ECTS = 25 hours

Symbol	Course Name	SSWL	USSWL	ECTS	Type	Prerequisite
IT242	Computer Networks	63	87	6	C	IT212
CS203	Object-Oriented Programming I	78	72	6	C	CS104
IT231	Database System Principles	63	87	6	C	CS104
CSIT202	Microprocessors	63	87	6	C	CSIT103
CSIT201	Probability and Statistics	48	27	3	B	CSIT101
UOWA104	Professional Ethics	18	7	1	S	—
UOWA105	Ba'athist Crimes	33	17	2	S	—
Total		366	384	30		

Semester 4 | 30 ECTS credits | 1 ECTS = 25 hours

Symbol	Course Title	SSWL	USSWL	ECTS	Type	Prerequisite
IT243	Network Routing and Switching	63	87	6	C	IT242
CS209	Object-Oriented Programming II	78	72	6	C	CS203
IT232	Database Systems Design and Development	63	87	6	C	IT231
IT262	Data Structures	63	87	6	C	CS104
IT272	Principles of Project Management	33	42	3	E	—
UOWA202	English Language II	33	42	3	S	UOWA102
Total		333	417	30		

Semester 5 | 30 ECTS credits | 1 ECTS = 25 hours

Symbol	Course Name	SSWL	USSWL	ECTS	Type	Prerequisite
IT321	IT Governance	33	42	3	E	IT121
IT333	Database Systems Management	63	87	6	E	IT323
IT381	User Experience Design	63	87	6	C	IT121
IT331	Operating Systems	63	87	6	C	CSIT202
IT341	Web Design and Programming	63	87	6	C	CS203, CS209, IT262
CSIT301	Communication Skills	33	42	3	S	—
Total		318	432	30		

Semester 6 | 30 ECTS credits | 1 ECTS = 25 hours

Symbol	Course Name	SSWL	USSWL	ECTS	Type	Prerequisite
IT372	Advanced Computer Engineering	48	77	5	C	CSIT202
IT362	Software Engineering	63	87	6	C	—
IT332	Linux Operating Systems	63	62	5	C	IT331
IT342	Web Application Development	63	62	5	C	IT341
UOWA302	English Language III	33	42	3	S	UOWA202
IT381	Cybersecurity Principles	63	87	6	C	IT212
Total		333	417	30		

Semester 7 | 30 ECTS credits | 1 ECTS = 25 hours

Symbol	Course Name	SSWL	USSWL	ECTS	Type	Prerequisite
IT401	Information Security Technologies	63	87	6	C	IT381
IT444	Wireless Networks	48	27	3	E	IT243
IT431	Smartphone Applications	63	87	6	E	IT372, IT332
IT461	Data Storage Engineering	63	87	6	E	IT342
IT441	Graduation Project I	61	14	3	C	IT112
Total		300	389	30		

Semester 8 | 30 ECTS credits | 1 ECTS = 25 hours

Symbol	Course Name	SSWL	USSWL	ECTS	Type	Prerequisite
IT452	Cyber Attacks and Detection	63	87	6	C	IT381, IT401
IT445	Network Design	63	87	6	C	IT243
IT422	Modern Cloud Computing Technologies	63	87	6	E	IT421
IT472	Internet of Things (IoT)	63	87	6	E	IT421, IT461
IT492	Graduation Project II	61	14	3	C	IT441
UOWA402	English Language IV	35	40	3	B	UOWA302
Total		348	402	30		

8. Contact Information

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