Academic Program Description Form

(Adopted Based on the Twinning Agreement with the University of Karbala – College of Computer Science and Information Technology, Department of Information Technology, in Accordance with the Bologna System)

University Name: **Al-Warith Al-Anbiya**

Faculty/Institute: **Sciences**

Scientific Department: Information Technology

Academic or Professional Program Name: **Bachelor Science**

Final Certificate Name: **Bachelor Science in Information Technology**

Academic System: Bologna System

Description Preparation Date: **22/9/2024**

File Completion Date: **22/9/2024**

Signature:

Head of Department Name: Assist. Prof. Haydar Mohamed Ali

Date: 30/9/2024

جامعة وارث الانبياء
كلية العلوم
قسم تكنولوجيا المعلومات

The file is checked by:

Director of the Quality Assurance and University Performance Division:

Name: M.Sc Karrar Sadiq Mohsen

Date: 30/9/2024

Signature:

Approval of the Dean

Shaymaa Hussein Nawfal

جامعة وارث الانبياء
عمادة كلية العلوم

University of Warith AL-Anbiaa

جامعة وارث الأنبياء

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

الدفعة الأولى : البكالوريوس علوم - تكنولوجيا المعلومات.

جامعة وارث الانبياء
كلية العلوم
قسم تكنولوجيا المعلومات

جامعة وارث الانبياء
عمادة كلية العلوم

أ.م. د. شيماء حسين نوفل
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Approval of the Dean of the College

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1. Mission & Vision Statement

Vision Statement

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

We envision an Information Technology Department that excels in delivering cutting-edge curriculum and hands-on experiences, equipping students with the knowledge, skills, and mindset necessary to thrive in a rapidly evolving technological landscape. Our graduates will be at the forefront of innovation, driving technological advancements, and shaping the future of IT.

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

Our department aims to establish strong connections with industry partners, fostering meaningful collaborations and internships that bridge the gap between academia and real-world IT challenges. By nurturing strong industry ties, we ensure that our curriculum remains relevant and responsive to the dynamic needs of the IT industry.

Furthermore, we envision an Information Technology Department that contributes to society by producing graduates who are not only technically proficient but also ethical and socially responsible. We instill a sense of ethical conduct, cybersecurity awareness, and the importance of privacy protection in our students, preparing them to make positive contributions to the ethical use of technology.

Ultimately, our vision is to be recognized globally as a leading Information Technology Department, producing graduates who are sought after for their expertise, leadership abilities, and commitment to shaping a better digital future. We are dedicated to enabling 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 our undergraduate Information Technology Department is to provide a rigorous and comprehensive educational experience that prepares students for successful careers in the dynamic field of IT. We are committed to delivering quality education, fostering innovation, and cultivating a community of lifelong learners.

Our primary mission is to equip students with a solid foundation of technical knowledge and practical skills in Information Technology. Through a curriculum that blends theory and hands-on experiences, we strive to develop students' proficiency in areas such as programming, software development, database management, networking, cybersecurity, and emerging technologies.

We are dedicated to delivering a student-centered learning environment that emphasizes active engagement, critical thinking, and problem-solving. Our faculty members, who are experts in their respective fields, are committed to providing effective instruction, mentorship, and guidance to students. We promote an inclusive and supportive atmosphere that values diversity, encourages collaboration, and nurtures creativity.

In line with the ever-evolving nature of the IT industry, we continuously review and update our curriculum to stay current with emerging trends and technologies. We actively seek partnerships with industry leaders, professional organizations, and research institutions to ensure that our students receive relevant and up-to-date knowledge and practical experiences. We 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 integral components of our mission. We emphasize the importance of ethical conduct, privacy protection, and cybersecurity awareness in our curriculum. We aim to instill in our students a sense of professional integrity, accountability, and the ability to apply technology in an ethically and socially responsible manner.

We are committed to fostering a lifelong learning mindset among our students, encouraging them to pursue continuous professional development and adapt to the rapidly changing IT landscape. Our mission extends beyond graduation as we aim to cultivate alumni who are leaders, innovators, and lifelong contributors to the IT community.

By fulfilling our mission, we strive to produce well-rounded IT professionals who are equipped with the knowledge, skills, and ethical framework necessary to make significant contributions to the IT industry, society, and the advancement of technology for the betterment of humankind."

2. Program Specification

Programme code:	**BSc-IT**	**ECTS**	**240**
Duration:	**4 levels, 8 Semesters**	**Method of Attendance:**	**Full Time**

3. Program Goals

1- Be well prepared for a professional career in Information Technology.
2- Be able to apply information technology principles to real-world problems.
3- Guide technology decision-making to ensure consistency with the updated business direction.

1. Have the skills to work effectively within an organization and make positive contributions in the IT field.
2. Engage in life-long learning and professional development.
3. Communicate effectively as an IT professional with users, peers, and higher management.
4. Work effectively in teams, whether as a participant or as a leader.
5. Understand ethical, professional, and social issues related to the practice of their profession.
6. Demonstrate ethical behavior as an IT professional and sensitivity to the impact of technology on society.
7. Chase and successfully complete an advanced degree if desired.

4. Student Learning Outcomes

Outcome 1: Design / Development of Solutions

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement and evaluate a computing-based solution meeting computing requirements in the context of the program's discipline.
- Select and apply current techniques, skills, and tools necessary for computing integrated IT-based solutions into the marketplace.

Outcome 2: Conduct Investigation of updated market requirements

- Identify and analyze user needs to apply in the selection, creation, integration, evaluation, and administration of computing-based systems.
- An ability to engage in life-long learning and continuing professional development to cope with fast changes in technologies.

Outcome 3: IT and Society

- Analyze the local and global impact of computing on individuals, organizations, and society.

Outcome 4: Individual and Teamwork

- Function effectively as a team member or a leader to accomplish a common goal in a multidisciplinary team.
- Communicate effectively in a variety of professional contexts.

Outcome 5: Ethics

- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Apply ethical principles and responsibilities during professional practice.

Outcome 6: Critical Thinking

- Graduates will be able to use critical-thinking and problem-solving skills to develop a research project and/or paper.

5. Academic Staff

Name	Degree	Academic Title	Email
Haider Mohammed Ali Alghanami	PhD	Assistant Professor	hayder.alghanami@uowa.edu.iq
Mohsin Hassan Hussain	PhD	Assistant Professor	mohsin.ha@uowa.edu.iq
Elaf Adel Abbas	PhD	Lecturer	Elaf.Adel.Abbas@uowa.edu.iq
Mahmoud Jasim Khalsan	PhD	Lecturer	MAHMOUD@MIZAN.EDU.IQ
Maki Hussein Abdul Rahim	PhD	Lecturer	maky.h@uowa.edu.iq
Hussein Zaki Jasim	Master's	Lecturer	hussein.almngoshi@uowa.edu.iq
Nabil Sadiq Abdul Abbas	Master's	Assistant Lecturer	nabeel@uowa.edu.iq
Bandar Abdul Abbas Al-Mankoshi	Master's	Assistant Lecturer	bandar@uowa.edu.iq
Ali Mahmoud Ali	Master's	Assistant Lecturer	ali.mahmoud@uowa.edu.iq
Ali Abdul Hussein Ibrahim	Master's	Assistant Lecturer	ali.abdulhussein19@uowa.edu.iq
Karar Sadiq Mohsin Al-Ghadhari	Master's	Assistant Lecturer	karar.sadeq@uowa.edu.iq

6. Credits, Grading and GPA

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 with 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

7. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module Name	SSWL	USSWL	ECTS	Type	Pre-request
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	
UOWA 103	Arabic Language	33	17	2	S	
Total		333	417	30		

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
IT112	System 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	
UOWA 102	English Language I	33	42	3	S	
UOWA 103	Human Rights & Democracy	33	17	2	S	
Total		270	430			

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
IT242	Computer Networks	63	87	6	C	IT212
CS203	Object Oriented Programming I	78	72	6	C	CS104
IT231	Principles of Database Systems	63	87	6	C	CS104
CSIT202	Microprocessors	63	87	6	C	CSIT103
CSIT201	Probability and Statistics	48	27	3	B	CSIT101
UOWA 104	Professional Ethics	18	7	1	S	
UOWA 105	Baath crimes	33	17	2	S	
Total		366	384	30		

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
IT 243	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 Structure	63	87	6	C	CS104
IT272	Project Management Principles	33	42	3	E	
UOWA 202	English Language II	33	42	3	S	UOWA102
Total		333	417	30		

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
IT321	Information Technology Governance	33	42	3	E	IT121
IT333	DBMS Administration	63	87	6	E	IT323
IT381	User Experience Design	63	87	6	C	IT121
IT331	Operating System	63	87	6	C	CSIT202
341	Web Design and Programming	63	87	6	C	CS203,CS209,IT 262
CSIT301	Communication Skills	33	42	3	S	
Total		318	432	30		

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
IT372	Advanced Computer Architecture	48	77	5	C	CSIT202
IT362	Software Engineering	63	87	6	C	
IT332	Linux Operating System	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 | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
IT401	Information Security Technologies	63	87	6	C	IT381
IT444	Wireless Networks	48	27	3	E	IT243
IT431	Mobile 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 | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
IT452	Cyber-Attacks and Detection	63	87	6	C	IT381, IT401
IT445	Network Design	63	87	6	C	IT243
IT422	Cloud Computing Emerging Technologies	63	87	6	E	IT421
IT472	Internet of Things	63	87	6	E	IT421, IT461
IT492	Graduation Project II	61	14	3	C	IT441
UOWA402	English Language IIII	35	40	3	B	UOWA302
Total		348	402	30		

8. Contact

Program Manager:
Asst. Prof. Hayder Mohammed Ali Ghanimi | Ph.D. in Computer Science
Department | Information Technology
Email: hayder.alghanami@uowa.edu.iq
Mobile no.: +964 781 678 4600

Program Coordinator: Nabil Sadiq Abdul abbas | MSc in Information Technology
Email: nabeel@uowa.edu.iq
Mobile no.: 07733125323