Ministry of Higher Education and Scientific Research

Scientific Supervision and Scientific Evaluation Apparatus

Directorate of Quality Assurance and Academic Accreditation

Accreditation Department

Academic program and course description guide

2024

Academic Description Program
2023-2024

Name university: Mosul

Name collage: Computer science And Mathematic

Name of department :Computer science

File filling date: 1-4-2024

Signature

Dr. Wael Wadullah
Mahmood

Department Head

Date: 24/4/2024

Signature

The file has already been checked by

Director of Quality Assurance and

Assesment Performance of the college of

computer science and mathematic

Asst. Prof. Dr.Mohammed Chachan yonnis

Date: 24/4/2024

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Prof. Dr. Safwan Omar
Hasoon

Scientific Associate

Date: 24/4/2024

جامعة الموصل
كلية علوم الحاسوب والرياضيات
قسم علوم الحاسوب

Approval of the Dean

Prof. Dr. Dhuha Basheer Abdullah

Date: 24/4/2024

Academic program description form

Reviewing the performance of higher education institutions ((academic program review))

Description of the academic program

This academic program description provides a brief summary of the most important features of the program and the learning outcomes the student is expected to achieve; Demonstrating whether he has made the most of the available opportunities. It is accompanied by a description of each course within the program

University of Mosul	**Educational institution**	**1**
College of Computer Science and Mathematics/Department of Computer Science	**University department/center**	**2**
Computer Science	**Name of the academic program**	**3**
Bachelor of Science in Computer Science	**Name of the final certificate**	**4**
Bologna System (First Phase) Course system (second, third and fourth stages)	**School system**	**5**
Academic accreditation(ABET)	**Accredited accreditation program**	**6**
Central examinations	**Other external influences**	**7**
2024	**Date the description was prepared**	**8**

Objectives of the academic program

1	Providing students with theoretical and academic knowledge and scientific skills according to the latest scientific findings, as professional and academic cadres that provide society and its institutions with distinguished specialists and various academic qualifications, and strive to increase the number of accepted students after developing and increasing the department's capabilities according to need The labor market and monitoring the educational level through results statistics every year
2	Providing solutions to the problems of state institutions in this regard through the research of graduate students and teaching staff.
3	Keeping pace with modern scientific developments through the research projects of the teachers and focusing on being in the modern fields, especially the applied ones, while not neglecting the academic aspect, including its scientific importance to the department, and following up on this through the research plans prepared annually for the department.
4	Focusing on educational goals through the educational guidance committees in the department linked to the guidance committee in the college and continuous meetings with students to refine their personalities and guide them educationally to solve their problems in a manner consistent with the ethics of our society. All of this is through following up on the committees and their reports that are submitted to the committee in the college and the department presidency.
5	Raising the level of scientific research by holding an annual conference and participating in local, Arab and international conferences.
6	Communicating with modern scientific sources by providing modern books and references from scientific book fairs.

Required learning outcomes and teaching, learning and assessment methods

1	Knowledge and understanding 1. For the student to learn programming languages 2. The ability to find scientific solutions to societal problems programmatically.

	3. The ability to use and develop means of communication and wired and wireless networks 4. The ability to analyze and evaluate software systems before starting to design the system. 5. Developing student skills in building smart systems that are based on analysis Inference, reasoning, and self-learning. 6. Providing the student with some basic rules for evaluating and building software systems based on the basics of software analysis. 7. Increasing the student's knowledge of the basics of implementing software systems through understanding the mechanism of computer operation.
2	Subject-specific skills 1 .theoretical 2 .practical 3 .Summer training 4 .Graduation research

Teaching and learning methods

1	Ordinary blackboard
2	Smart board
3	Data display device
4	Theoretical, practical, and applied lectures, daily assignments and discussions

Evaluation methods

1	Electronic exams
2	Central and monthly examinations
3	Daily exams
4	Scientific reports
5	Practical exams
6	Research projects
7	Exams, assignments, daily assignments, discussions, laboratory reports, graduation project

Thinking skills

1	The skill of deduction and analysis
2	Comparison skill
3	Discussion skills
4	Skills in using computers and the Internet
5	Research and investigation skill
6	The skill of conducting research and drawing conclusions
7	Decision making skill

Teaching and learning methods

1	Theoretical lectures
2	Practical laboratories
3	Research and investigation
4	Discussion groups within practical lessons
5	Lectures, practical experiments, applications, homework, scientific discussions

Evaluation methods

1	Electronic exams
2	Oral and written examinations
3	Research projects
4	Class discussions
5	Evaluation of assignments and discussions
6	Evaluating individual and group research
7	Exams, assignments, daily assignments, discussions, laboratory reports, graduation project

General and transferable skills (other skills related to employability and personal development)

1	Developing the ability for effective teamwork
2	Developing the ability for self-learning
3	Developing the ability to present and discuss ideas
4	Developing the ability to address problems in a logical, organized manner
5	Ability to work in a multidisciplinary team
6	Ability to communicate and build

Teaching and learning methods

1	Cooperative learning
2	Group discussions
3	Individual learning
4	Lectures, practical experiments, applications, homework, scientific discussions

Evaluation methods

1	Observing students' interaction in different situations
2	Presenting real-life issues and problems and observing how students deal with them programmatically.
3	Evaluating group and individual work
4	Solutions to summer training problems through graduation projects