



جامعة أم القرى
UMM AL-QURA UNIVERSITY



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





College of Computing

Department of Computer Science and Artificial Intelligence

Computer Science Bachelor Program

Program Operational Plan

Academic Year 1446 AH (2024-2025)

March 2025

Prepared by: CS Program Management Committee

Dr. Majdah Hussain Alsharif



Executive Summary

The CS Program Operational Plan is designed to supply graduates to the computing industry, government, and academia equipped with the skills that will enable them to provide technical leadership, explore new directions in computer technology and its applications, and succeed in the modern electronic age. To ensure these goals are met, the operational plan includes targeted activities such as curriculum reviews, student mentorship, industry collaborations, and research incentives. Key performance indicators (KPIs) will measure the program's success in areas like student satisfaction, retention rates, employability, faculty research output, and course quality

Program Mission

Preparing highly qualified graduates in the field of computer science through innovative education and scientific research, which develop creative and analytical abilities that contribute to the Kingdom's knowledge-based economy and development of society in various sectors

Program Goals

- 1) To provide the community with professional graduates in the field of computers to design, implement and manage commercial and research projects
- 2) To give the graduates the ability to cope with the rapid change in the computer science field through self-development and professional training which enable them to create new ideas and innovations
- 3) To enable graduates to adopt modern technologies that serve the needs of society



Goal	Detailed Objectives	Procedural Activities	Timeline		Responsibility of Implementation	KPI	Target	Measurement Methods
			Start Date	Expected End Date				
1) To provide the community with professional graduates in the field of computers to design, implement and manage commercial and research projects	Develop high-quality curriculum aligned with academic standards and industry needs	Review & update the program structure by conducting regular meetings with the Program Management committee, Curriculum committee and Quality Assurance committee	1st week of the academic year	End of the academic year	Program Management committee + Curriculum committee + Quality Assurance committee	KPI-P-01: Students' Evaluation of Quality of learning experience in the program	≥ 75% Satisfaction	Student evaluation survey of the program + Quality assurance report
						KPI-P-02: Student's evaluation of the quality of the courses	≥ 75% Satisfaction	Student evaluation surveys of courses + Course Reports
	Increase completion rate	Conduct academic support sessions	Start of the first semester	Per cohort	Academic Advising Committee	KPI-P-03: Completion rate	≥ 75% Completion	Reports from academic registration system
	Improve student retention					KPI-P-04: First-year students retention rate	≥ 80% Retention	



<p>2) To give the graduates the ability to cope with the rapid change in the computer science field through self-development and professional training which enable them to create new ideas and innovations</p> <p>+ 3) To enable graduates to adopt modern technologies that serve the needs of society</p>	<p>Monitor students' success in professional certifications</p>	<p>Offer preparatory courses for professional exams</p>	<p>Start of the academic year</p>	<p>Every year</p>	<p>Examination committee</p>	<p>KPI-P-05: Students' performance in the professional and/or national examinations</p>	<p>≥ 75% Pass Rate</p>	<p>Reports from academic registration system for Exit exam and اختبار جاهزيه</p>
	<p>Strengthen students' employability skills</p>	<p>Conduct career development sessions and internship placement</p>	<p>Throughout the academic year</p>	<p>Every year</p>	<p>Co-op training Committee</p>	<p>KPI-P-06: Graduates' employability and enrolment in postgraduate programs</p>	<p>≥ 70% Employment or Further Studies</p>	<p>Alumni surveys</p>
	<p>Measure the employer's satisfaction with the trained graduates</p>	<p>Conduct survey</p>	<p>End of the Co-op training</p>	<p>Every year</p>	<p>Co-op training Committee</p>	<p>KPI-P-07: Employers' evaluation of the program graduate's proficiency</p>	<p>≥ 75% Satisfaction</p>	<p>Employer surveys</p>



The Plan Prepared by: **Dr. Majdah Alsharif**

Head of CS Program Management Committee at CSAI Department

The Plan Approved by: **Dr. Majed Farrash**

Head of CSAI Department