



## Program Specification

<b>Program Name:</b> Bachelor of Computer Science
<b>Qualification Level:</b> Undergraduate/Bachelor's degree
<b>Department:</b> Department of Computer Science
<b>College:</b> College of Computer Science
<b>Institution:</b> King Khalid University

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## A. Program Identification and General Information

<b>1. Program Main Location:</b>		
Guraiger (Main Campus)		
<b>2. Branches Offering the Program:</b>		
Abha, Khamis Mushait, Ahad Rufaidah, Rijal Almaa'a, Majardah, Tanumah, Muhayil, Dhahran, Aljanoob, Sarat Abiada and Al Sameer.		
<b>3. Reasons for Establishing the Program:</b> (Economic, social, cultural, and technological reasons, and national needs and development, etc.)		
<ul style="list-style-type: none"> <li>• College of Computer Sciences reason is "The accomplishment of global pioneering and to be distinguished in the advancement of education, research and society development in the fields of computer science and engineering".</li> <li>• College of Computer Sciences reason is to "Provide high-quality education and the needed requirements for research and innovation to produce graduates with high professional competence in the field of computer science and engineering and technical participation in community service".</li> </ul>		
<b>4. Total Credit Hours for Completing the Program: (138 credit hours)</b>		
University Requirement: 12 College Requirement: 28 Program Core: 92 Program Electives: 06		
<b>5. Professional Occupations/Jobs:</b>		
<ol style="list-style-type: none"> <li>1. Teachers</li> <li>2. S/w Engineer</li> <li>3. Programmer</li> <li>4. Developer</li> <li>5. Editors</li> <li>6. Data Analyst</li> <li>7. Tester</li> </ol>		
<b>6. Major Tracks/Pathways (if any):</b>		
<ul style="list-style-type: none"> <li>• Intelligent Systems</li> <li>• Software Engineering</li> <li>• Network Security</li> </ul>		
<b>7. Intermediate Exit Points/Awarded Degree (if any):</b>		
<b>Intermediate exit points/awarded degree</b>	<b>Credit hours</b>	
<ul style="list-style-type: none"> <li>• System Administrator,</li> <li>• Software Developer,</li> <li>• Network Administrator</li> <li>• Software Analyst</li> </ul>	NA	

## B. Mission, Goals, and Learning Outcomes

<b>1. Program Mission:</b>	
To provide high quality education and scientific research in computer science by upholding human values, offering constructive community services and employment opportunities.	
<b>2. Program Goals:</b>	
1. The Computer Science Program at King Khalid University is designed to prepare Computer Science graduates, who will be employed in a professional computing field or continue research in graduated program.	
2. Demonstrate sense of ethical and social responsibilities while leading, designing and developing computer projects	
3. Contribute effectively to the economic development of the Saudi society through the adaptation of new computing technologies for business and research	
<b>3. Relationship between Program Mission and Goals and the Mission and Goals of the Institution/College.</b>	
<u>Mapping Between Program Mission and Faculty Mission and Mapping Between Faculty Mission and University Mission can be accessed by <a href="#">click here</a>.</u>	
<b>4. Graduate Attributes:</b>	
<ul style="list-style-type: none"> <li>• System Administrator,</li> <li>• Software Developer,</li> <li>• Network Administrator</li> <li>• Software Analyst</li> </ul>	
<b>5. Program learning Outcomes*</b>	
<b>Knowledge and Understanding</b>	
<b>K1</b>	Define mathematical concepts, algorithmic principles, and computer science fundamentals (A)
<b>K2</b>	Define the major key terms within the fields of linguistics, applied linguistics, literature, and translation.
<b>K3</b>	Articulate and explain the major theories, techniques, strategies, principles, and practices within the field of English language.
<b>Skills</b>	
<b>S1</b>	Apply computer science knowledge and software development fundamentals to produce solutions using computing-based systems for varied problems.(B)
<b>S2</b>	Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.(C)
<b>S3</b>	Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.(D)
<b>S4</b>	Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.( E)
<b>S5</b>	Apply theories and practices of teaching and learning a foreign language in relevant contexts.(F)
<b>S6</b>	Apply research skills and methods to conduct research and deliver effective presentations.(G)
<b>Values</b>	
<b>V1</b>	Critically reflect on their own learning experience of computer software and explore options to continuously develop their competence.
<b>V2</b>	Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline. ( F)citizens Who value diversity
<b>V3</b>	Work ethically and professionally as a part of a team or independently.

\* Add a table for each track and exit Point (if any)

## C. Curriculum

### 1. Curriculum Structure

No	Requirements	Number of Courses	Number of credit hours	%
1	University Courses	2+4=6	4+8=12	8.6
2	College Courses	3+2+2=7	10+12+6=28	20.28
3	Department Courses	31	92	66.6
4	Departmental Elective Courses	2	6	4.34
<b>Total</b>		<b>46</b>	<b>138</b>	<b>100</b>

\* Add a table for each track (if any)

### 2. Program Study Plan

Year	Course Code	Course Title	Required or Elective	* Pre-Requisite Courses	Credit Hours	Offering Department
1 <sup>st</sup> Year Semester 1	111-CCS-3	Introduction to Computing	Department Requirement		3	Dept. of CS
	111-ICI-2	The Entrance to the Islamic Culture 1	University Requirement		2	Dept. of Chariaa
	108-MATH-3	Calculus 1	College Requirement		3	Dept. of Mathematics
	201-ARAB-2	Arabic Language Skills	University Requirement		2	Dept. of Chariaa
	011-ENG-	Intensive English	College Requirement		6	Dept. of English

	6	Program 1				
<b>1<sup>st</sup> Year Semester 2</b>	121-CCS-3	Introduction to programming	Department Requirement	111-CCS-3	3	Dept. of CS

Year	Course Code	Course Title	Required or Elective	* Pre-Requisite Courses	Credit Hours	Offering Department
	112-ICI-2	Islamic Culture 2	University Requirement	111ICI	2	Dept. of Chariaa
	109-MATH-3	Calculus 2	College Requirement	101MATH	3	Dept. of Mathematics
	202-ARAB-2	Arabic Editing	University Requirement		2	Dept. of Chariaa
	012-ENG-6	Intensive English Program 2	College Requirement	011ENG	6	Dept. of English
<b>2<sup>nd</sup> Year Semester 1</b>	211-PHY-4	Principles of Physics	College Requirement		4	Dept. of Physics
	113-ICI-3	Islamic Culture (3)	University Requirement	112ICI	2	Dept. of Chariaa
	113-MATH-3	Linear Algebra	Department Requirement		3	Dept. of Mathematics
	222-CCS-4	Object Oriented Programming	Department Requirement	121-CCS-3	6	Dept. of CS
	251-CCS-3	Computer Organization and Architecture	Department Requirement		3	Dept. of CS
	139-BUS-2	Communication Skills	College Requirement		2	Dept. of Business Administration
<b>2<sup>nd</sup> Year Semester 2</b>	211-CHE-	Chemistry	College Requirement		3	Dept of Chemistry

	214-ICI-2	Islamic Culture (4)	University Requirement	113ICI	2	Dept. of Chariaa
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Year	Course Code	Course Title	Required or Elective	* Pre-Requisite Courses	Credit Hours	Offering Department
	339-MATH-3	Probability and Statistics	Department Requirement		3	Dept. of Mathematics
	231-CCS-4	Data Structures & Algorithms	Department Requirement	222-CCS-3	4	Dept. of CS
	231-CIS-3	Introduction to Databases	Department Requirement		3	Dept. of IS
	223-CCS-3	Advanced Object Oriented Programming	University Requirement	222-CCS-3	3	Dept. of CS
<b>3<sup>rd</sup> Year Semester 1</b>	133-CCE-3	Discrete Structures	Department Requirement		3	Dept. of Mathematics
	341-CCS-3	Principles of Software Engineering	Department Requirement	222-CCS-3	3	Dept. of CS
	381-CCS-3	Operating Systems	Department Requirement	231-CCS-3	3	Dept. of CS

	352-CCS-3	Microprocessor and Assembly Language	Department Requirement	251-CCS-3	3	Dept. of CS
	371-CCS-3	Data Communication and Computer Networks	Department Requirement	222-CCS-3	3	Dept. of CS
	312-CCS-3	Image Processing	Department Requirement	315MATH	3	Dept. of CS

Year	Course Code	Course Title	Required or Elective	* Pre-Requisite Courses	Credit Hours	Offering Department
<b>3<sup>rd</sup> Year Semester 2</b>	361-CCS-3	Artificial Intelligence	Department Requirement	231-CCS-3	3	Dept. of CS
	324-CCS-3	Programming with Python	Department Requirement	222-CCS-3	3	Dept. of CS
	453-CIS-3	Computer and Network Security	Department Requirement	371-CCS-3	3	Dept. of IS
	373-CCS-3	Web	Department Requirement	222-CCS-3	3	Dept. of CS



		Engineering	Requirement			
	313-CCS-3	Game Development	Department Requirement	222-CCS-3	3	Dept. of CS
	314-CCS-3	Operations Research		231-CCS-3	3	Dept. of CS
<b>4<sup>th</sup> Year Semester 1</b>	462-CCS-3	Introduction to Machine Learning	Department Requirement	361-CCS-3	3	Dept. of CS
	425-CCS-2	Programming Paradigms	Department Requirement	324-CCS-3	2	Dept. of CS
		Common Elective 1- (College level)	Department Requirement		3	Dept. of CS
		Elective -1	Department Requirement		3	Dept. of CS/IS
	492-CCS-3	Project -1	Department Requirement	491-CCS-0	0	Dept. of CS

Year	Course Code	Course Title	Required or Elective	* Pre-Requisite Courses	Credit Hours	Offering Department
		Design and				Dept. of CS

	432-CCS-3	Analysis of Algorithms		331-CCS-3	3	
<b>4<sup>th</sup> Year Semester 2</b>	414-CCS-3	Theory of Compiler	Department Requirement	425-CCS-2	3	Dept. of CS
	482-CCS-3	Parallel and Distributed Computing	Department Requirement	381-CCS-3	3	Dept. of CS
	483-CIS-2	Computing Ethics	Department Requirement		2	Dept. of IS
		Common Elective 2 - (College level)	Department Requirement		3	Dept. of CS
		Elective - 2	Department Requirement		3	Dept. of CS/IS
	493-CCS-3	Project 2		492-CCS-3	3	Dept. of CS

### Department Electives

Intelligent Systems	463-CCS-3	Neural Network and fuzzy logic	Department Requirement	361-CCS-3	3	Dept. of CS
	464-CCS-3	Knowledge Engineering and Experts System	Department Requirement	361-CCS-3	3	Dept. of CS
	373-CIS-3	Data Mining	Department Requirement	361-CCS-3	3	Dept. of IS
	442-CCS-3	Software Testing	Department		3	Dept. of CS

Software Engineering		and Quality Assurance	Requirement	341-CCS-3		
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Year	Course Code	Course Title	Required or Elective	* Pre-Requisite Courses	Credit Hours	Offering Department
	443-CCS-3	Principles of Software Design and Architecture	Department Requirement	341-CCS-3	3	Dept. of CS
	444-CCS-3	Software Project Management	Department Requirement	341-CCS-3	3	Dept. of CS
Network Security	456-CIS-3	Security Incident Management	Department Requirement	453-CIS-3	3	Dept. of IS
	457-CIS-3	Introduction to Cryptography	Department Requirement	453-CIS-3	3	Dept. of CS
	457-CIS-3	Cyber defense technology	Department Requirement	453-CIS-3	3	Dept. of CS

### College Electives

Course Code	Course Title	Credit Hours	Offering Department
486-CIS-3	Design Thinking	3	Department of Information Systems

444-CIS-3	Human Computer Interaction	3	Department of Information Systems
472-CCE-3	Robotics	3	Department of Computer Engineering
447-CCE-3	Internet of Things	3	Department of Computer Engineering
454-CCE-3	Wireless Networks	3	Department of Computer Engineering
443-CCE-3	Real Time Systems	3	Department of Computer Engineering
457-CIS-3	Cloud Computing	3	Department of Information Systems
424-CIS-3	Mobile Application Development	3	Department of Information Systems
332-CIS-3	Advanced Database Management Systems	3	Department of Information Systems
476-CIS-3	Internet of Things Analytics and Security	3	Department of Information Systems

\* Include additional levels if needed

\*\* Add a table for each track (if any)

### 3. Course Specifications

Insert hyperlink for all course specifications using NCAAA template

<https://drive.google.com/drive/folders/1RNY71nY5e0o1XbLpp7MRh2> CrdUOJOJb

### 4. Program learning Outcomes Mapping Matrix

Align the program learning outcomes with program courses, according to the following desired levels of performance (I = Introduced P = Practiced M = Mastered )

Courses/ PLOs	A	B	C	D	E	F	G
111-CCS-3	I	I		I			
111-ICI-2	I				I	I	I
108-MATH-3	I	I			I		I
201-ARAB-2					I	I	I
011ENG-6					I	I	I
121-CCS-3	I	I		I			
112-ICI-2	I				I	I	I
109-MATH-3	I	I			I		I
202-ARAB-2					I	I	I
012-ENG-6					I	I	I
211-PHY-4	I					I	I
113-ICI-3	I				I	I	I
113-MATH-3	I	I			I		I
222-CCS-4	I	I	I	I			
251-CCS-3	I		I		I		
139-BUS-2					I	I	I
109-CHEM-3	I						I
214-ICI-4	I				I	I	I
339-MATH-3	I	I			I		I
231-CCS-4	P	P	P	P			
231-CIS-3	P	P		P		P	
223-CCS-3	P	P	P	P	P		
133-CCE-3	I	I			I		I
341-CCS-3	P	P	P	P	P		
381-CCS-3	P	P		P	P	P	
352-CCS-3	P	P	P		P		

371-CCS-3	P	P	P	P	P		
312-CCS-3	P		P	P	P		

\* Add a table for each track (if any)

<p><b>5. Teaching and learning strategies to achieve program learning outcomes</b> Describe policies, teaching and learning strategies, learning experience, and learning activities, including curricular and extra-curricular activities, to achieve the program learning outcomes.</p> <p>The Bachelor of Arts in Computer Science program employs different teaching and learning strategies to achieve the program learning outcomes. These strategies include lectures, classroom discussions, group discussions, tutorial sessions, classroom presentations, debates, teamwork, decision making, and self-education.</p>
<p><b>6. Assessment Methods for program learning outcomes.</b> Describe assessment methods (Direct and Indirect) that can be used to measure achievement of program learning outcomes in every domain of learning.</p> <p>The Bachelor of Computer Science program employs different assessment methods for program learning outcomes such as tests, quizzes, presentations, group discussions, assignments, mini-research, and peer evaluation Case study and project.</p>

## D. Student Admission and Support:

<p><b>1. Student Admission Requirements</b></p> <p>The admission requirements for the Bachelor of computer science program are as follows: The University Council determines the number of students to be admitted for the upcoming academic year on the basis of</p> <p>the recommendations presented by the College and respective Department councils. The Deanship of Admissions and Registration prepares a draft recommendation to the University Council regarding the number of students to be admitted into the programs during the following academic year. Before starting the preparatory year the students are allowed to choose their major based on their performance in High School Grades, Ability Test (Qiyas) and Comprehensive Exam (Tahsili) as per the following composition of 30%, 30% and 40% respectively</p> <p>Deanship of Admissions and Registration at King Khalid University stipulates the Rules and Regulations of Undergraduate Study, Examinations and its Implementation Rules. These policies and processes are discussed in the following sections and available at the following URL</p> <p><a href="http://dar.kku.edu.sa/sites/dar.kku.edu.sa/files/general_files/files/Lae7ah.pdf">http://dar.kku.edu.sa/sites/dar.kku.edu.sa/files/general_files/files/Lae7ah.pdf</a>.</p> <p>Similarly students are also provided these rules and regulation in the form of Student Handbook available at the following URL</p> <p><a href="http://dar.kku.edu.sa/sites/dar.kku.edu.sa/files/general_files/files/Daleel_Altaleb.com_pressed.pdf">http://dar.kku.edu.sa/sites/dar.kku.edu.sa/files/general_files/files/Daleel_Altaleb.com_pressed.pdf</a></p>
<p><b>2. Guidance and Orientation Programs for New Students</b></p> <p>Prior to the start of classes, an academic orientation is scheduled for all new students to acquaint them with the general academic university regulations, policies, and services. During orientation, The applicant should have a Saudi Arabian Nationality or a Saudi Arabian mother or who gets exception from the university internal policies or national interests.</p> <p>The applicant should have his/her high school certificate or an equivalent certificate from inside or outside Saudi Arabia.</p>

The applicant should obtain the secondary school certificate, or its equivalent, in a period of less than five years prior to his/her application. However the University Council may waive this condition if the applicant has a persuasive explanation.

The applicant should have a certificate of good conduct.

The applicant should clear the two exams for admission in any university degree program. One exam tests the aptitude and other for the assessment of subject competency. It is administered by the National Assessment Center for Higher Education in a large number of centers across the Kingdom.

The aptitude test (Qiyas) determines the general capabilities of students in Mathematics and Linguistics.

### 3. Student Counseling Services

(academic, career, psychological and social )

1. Describe arrangements for academic counselling and advising for students, including both scheduling of faculty office hours and advising on program planning, subject selection and career planning (which might be available at college level).
2. Describe arrangements for academic counselling and advising for students, including both scheduling of faculty office hours and advising on program planning, subject selection and career planning (which might be available at college level).
3. Group of students (10-12) are assigned to academic advisor (faculty members) for providing academic counselling. Students are required to meet the Student Academic Advisor at least twice per semester; the academic advisors have students' data. Students with poor performance (GPA < 2.0) are closely monitored and are provided appropriate counselling. Students can get advice on academic matters from academic advisor. They can also have discussions on course and lecture specific problems. Each faculty members allocates 10 office hours per week in time table for students counselling. The department has a Students' Council which act as a bridge between student's community and department.
4. The student advisory list is attached in Annexure V

### 4. Special Support

(low achievers, disabled, gifted and talented)

Managed by the Guidance and Counselling Unit

## E. Teaching and Administrative Staff

### 1. Needed Teaching and Administrative Staff

Academic Rank	Specialty		Special Requirements / Skills ( if any )	Required Numbers		
	General	Specific		M	F	T
Professors	3	-	-	2	1	3
Associate Professors	11	-	-	8	3	11
Assistant Professors	43	-	-	30	13	43
Lecturers	40	-	-	25	15	40
Teaching Assistants	25	-	-	15	10	25
Technicians and Laboratory Assistants	NA	-	-	NA	NA	NA

Academic Rank	Specialty		Special Requirements / Skills ( if any )	Required Numbers		
	General	Specific		M	F	T
Administrative and Supportive Staff	12	-	-	12	-	-
Others ( specify )	-	-	-			

## 2. Professional Development

### 2.1 Orientation of New Teaching Staff

Describe briefly the process used for orientation of new, visiting and part-time teaching staff

Orientation and Adaptation program (program guide-book/meetings with fellow staff members and department's administration)

- Explain the program's mission, goals, objectives, academic program, and constituent courses.
- Familiarize the new member with the program's achievements and contributions in the academic and community service areas.
- Introduce the new member to the resources and facilities available to the program.
- Acquaint the new member with his duties and responsibilities in the academic institution.
- Explain the opportunities available for further development and the chances available to the new member for contribution.
- Actual visits to the department, college, and university.
- Training courses provided by the Deanship of Academic Development and Quality.

### 2.2 Professional Development for Teaching Staff

Describe briefly the plan and arrangements for academic and professional development of teaching staff (e.g., teaching & learning strategies, learning outcomes assessment, professional development, etc.)

All activities of the department are initially discussed internally and suggestions are forwarded to the Department council for further consideration and suitable decisions. The Department activities are planned and executed with the following committees are:

1. Quality and Academic Development Committee deals with all quality related activities based on ADAQ (Academic Development and Quality Deanship) guidelines.
2. Time Table committee deals with all tasks related to time table and room allocation.
3. Curriculum Committee responsible for the program curriculum and make necessary changes to maintain the consistency of the program.
4. E-Learning committee facilities E-Learning services to the staff and students.
5. Academic Project committee provides guidelines to the students and evaluates the same.
6. Examination Committee manages final examination process of the department
7. Equipment's and Facilities committee prepare the requirements of the laboratories and libraries.
8. Research Committee enhances all scientific research related activities

## F. Learning Resources, Facilities, and Equipment

### 1. Learning Resources.

Mechanism for providing and quality assurance of learning resources (textbooks, references and other resource materials, including electronic and web-based resources, etc.)

1a. What processes are followed by faculty and teaching staff for planning and acquisition of textbooks, reference and other resource material including electronic and web based resources?

- Text books and reference books are identified by the subject coordinator in consultation with other course teachers at the beginning of the academic year. The list of books is submitted to the Central library through Head of the Department and Dean of College.
- Additional teaching materials are made available anytime by the course teachers through blackboard (lms.kku.edu.sa)



<p><b>2. Facilities and Equipment</b> (Library, laboratories, medical facilities, classrooms, etc.).</p> <p>In the evaluation process, the books are checked against the course objectives from the course file by Course Coordinators and the Department Curriculum Committee</p> <p>The computer science program courses are taught in traditional class room, blended and e-learning mode, the evaluation process for class room will be through online.</p> <p>The department of Computer Science program has dedicated and shared computing resources. The laboratory facilities and licensed software are the exclusive computing resources for teaching learning process. In addition to that KKU portal provides computing facilities' for the staff and students for the enrichment of teaching learning process.</p> <p>The Labs are classified into General and Special labs. The General labs are with high end computing process and connected to the server for programming, teaching and project development.</p> <p>The department is strictly following the University policy for equipment Acquisition, Maintenance and Utilization process. The safety measures are implemented on physical , electrical , data and digital utilization .The inventory system is ensure the existence and access of the equipment for the effective teaching learning process with well-defined IT policy for the staff and Students.</p>
<p><b>3. Arrangements to Maintain a Healthy and Safe Environment</b> (According to the nature of the program )</p> <p>Maintenance and safety oversight managed by the King Khalid University higher administration.</p>

## G. Program Management and Regulations

<p><b>1. Program Management</b></p> <p><b>1.1 Program Structure</b> (including boards, councils, units, committees, etc.)</p> <p>Advisory Board, Academic Development and Quality Unit, Alumni Unit, E-Learning Unit, Guidance and Counselling Unit, Language Enhancement Program (LEP), Measurement and Evaluation Unit, Registration Unit, Social Media Unit, English Club, Website Administration, Timetables and Exams, Academic Advising and Students' Affairs, Higher Studies and Scientific Research, Study Plans and Curricula, Educational Services, Quality and Development, and Community Service.</p>
<p><b>1.2 Stakeholders Involvement</b></p> <p>Describe the representation and involvement of stakeholders in the program planning and development. (students, professional bodies, scientific societies, alumni, employers, etc.)</p> <p>Study, review, and analysis student's assessments of academic programs and courses.</p> <p><input type="checkbox"/> Internal review and revision (self-assessment)</p> <p><input type="checkbox"/> External review of programs and courses.</p>
<p><b>2. Program Regulations</b></p> <p>Provide a list of related program regulations, including their link to online version: admission, study and exams, recruitment, appeals and complaint regulations, etc.)</p> <p>Current students and graduates of the program?</p> <ul style="list-style-type: none"> <li>• Feedback from current students to assess the difficulties faced by them in understanding the subjects and performing well.</li> <li>• Taking feedback through e-Group from alumni to identify the weakness of the program and difficulties faced by them for pursuing higher education and in getting jobs.</li> <li>• Course evaluation for all students</li> <li>• Program evaluation for last 2 year students</li> </ul> <p><b>Annexures:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Project Guidelines</a></li> <li>• <a href="#">KKU Students Hand Book</a></li> <li>• <a href="#">KKU Admission and Student Registration Guidelines</a></li> <li>• <a href="#">Course specifications for all program courses</a></li> <li>• <a href="#">Evaluation of University Experience</a></li> </ul>

## H. Program Quality Assurance

<b>1. Program Quality Assurance System</b> Provide online link to quality assurance manual
<a href="https://flt.kku.edu.sa/sites/flt.kku.edu.sa/files/Quality-Assurance-Manual.pdf">https://flt.kku.edu.sa/sites/flt.kku.edu.sa/files/Quality-Assurance-Manual.pdf</a>
<b>2. Program Quality Monitoring Procedures</b>  Study, review, and analysis student's assessments of academic programs and courses.  Internal review and revision (self-assessment)  External review of programs and courses.  The college has installed the complete advisory committee process to assess the program objectives according to following link <a href="https://drive.google.com/drive/folders/1rZK8MvtMGYZ6cPa6lLmvhV2cnz2av_jn">https://drive.google.com/drive/folders/1rZK8MvtMGYZ6cPa6lLmvhV2cnz2av_jn</a>
<b>3. Arrangements to Monitor Quality of Courses Taught by other Departments.</b>  NA
<b>4. Arrangements Used to Ensure the Consistency between Main Campus and Branches (including male and female sections)</b>  There are regular meetings held between the male and female campus — which is one program — to ensure the consistency and of the materials taught in addition to the textbooks used in teaching. In addition, the exams and quizzes are all unified knowing that one course coordinator is assigned for both sections.
<b>5. Arrangements to Apply the Institutional Regulations Governing the Educational and Research Partnerships (if any).</b>  All activities of the department are initially discussed internally and suggestions are forwarded to the Department council for further consideration and suitable decisions. The Department activities are planned and executed with the following committees are:  Quality and Academic Development Committee deals with all quality related activities based on ADAQ (Academic Development and Quality Deanship) guidelines.  Time Table committee deals with all tasks related to time table and room allocation.  Curriculum Committee responsible for the program curriculum and make necessary changes to maintain the consistency of the program.  E-Learning committee facilities E-Learning services to the staff and students.
<b>6. Assessment Plan for Program Learning Outcomes (PLOs), and Mechanisms of Using its Results in the Development Processes</b>  Program Learning Outcomes, Assessment Methods, and Teaching Strategies work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning and teaching. Both PLOs and CLOs are aligned through a mapping matrix. Then, the courses contribute to each PLO are identified and the average of each PLO is calculated. Based on that average, the target and new target benchmark are set.

### 7. Program Evaluation Matrix

Evaluation Areas/Aspects	Evaluation Sources/References	Evaluation Methods	Evaluation Time
Effectiveness of teaching and assessment	Students	Surveys	End of academic year
Learning resources	Students	Surveys	End of academic year
KPIs measurement	Students and faculty Members	Surveys	

**Evaluation Areas/Aspects** (e.g., leadership, effectiveness of teaching & assessment, learning resources, partnerships, etc.)

**Evaluation Sources** (students, graduates, alumni, faculty, program leaders, administrative staff, employers, independent reviewers, and others (specify))

**Evaluation Methods** (e.g., Surveys, interviews, visits, etc.)

**Evaluation Time** (e.g., beginning of semesters, end of academic year, etc.)

## 8. Program KPIs\*

The period to achieve the target ( 1 ) year.

No	KPIs Code	KPIs	Target	Measurement Methods	Measurement Time
1	KPI-P-01	Percentage of achieved indicators of the program operational plan objectives	30%		
2	KPI-P-02	Students' Evaluation of quality of learning experience in the program	4.00		
3	KPI-P-03	Students' evaluation of the quality of the courses	4.20		
4	KPI-P-04	Completion Rate	Average=75%		
			Males=75%		
			Females=75%		
5	KPI-P-05	First-year students retention rate	60%		
6	KPI-P-06	Students' performance in the professional and/or national examinations	50%		
7	KPI-P-07	Graduates' employability and enrolment in postgraduate programs	40%		
8	KPI-P-08	Average number of students in the class	60%		
9	KPI-P-09	Employers' evaluation of the program graduate's proficiency	3.70		
10	KPI-P-10	Students' satisfaction with the offered services	4.00		
11	KPI-P-11	Ratio of students to teaching staff	1/20 (5%)		
12	KPI-P-12	Percentage of teaching staff distribution	Full Professor=5%		
			Associate Professor= 15%		
			Assistant Professor=40%		
			Lecturer=40%		
13	KPI-P-13	Proportion of teaching staff leaving the program	3%		

No	KPIs Code	KPIs	Target	Measurement Methods	Measurement Time
14	KPI-P-14	Percentage of publications of faculty members	15%		
15	KPI-P-15	Rate of published research per faculty member	15%		
16	KPI-P-16	Citations rate in refereed journals per faculty member	4		
17	KPI-P-17	Satisfaction of beneficiaries with the learning resources	4.20		

\* including KPIs required by NCAAA

### I. Specification Approval Data

<b>Council / Committee</b>	<b>Department of Computer Science Council</b>
<b>Date</b>	<b>MARCH 2020</b>