هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

اعتماد
NCAAA

2024
TP-152

Annual Program Report
— (Bachelor)

Program: **B.S. Information Technology**
Program Code (as per Saudi Standard Classification of Educational Levels and Specializations): **061303**
Qualification Level: **Level 6, Bachelor's degree**
Department: **Information Technology**
College: **1. Faculty of Computing and Information Technology – Khulais (Main)** **2. Faculty of Computing and Information Technology – Alkamil (Branch)**
Institution: **University of Jeddah**
Academic Year: **2023-2024**
Main Location: **College of Computing and Information Technology - Khulais**
Branches offering the program (if any): • Faculty of Computing and Information Technology – Alkamil (Branch)

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A. Program Statistics

Item	Number Boys | Girls
Number of students enrolled in the program	230+280 = 510
Number of students who started the program (in reporting year)	58 + 115 = 175
Number of students who completed the program	23 + 53 = 76

B. Program Assessment

1A. Program Learning Outcomes Assessment and analysis according to PLOs assessment plan *

#	Program Learning Outcomes	Assessment Methods (Direct and Indirect)	Targeted Performance (%)	Assessment Results (Direct | Indirect | Average)
Knowledge and Understanding				
K1	Acquire knowledge and understanding of computing and mathematics appropriate to the discipline including simulation and modelling.	• Quizzes • Short cognitive tests. • Mid Terms • Final Exams	70%	**72.79%** | **77.21%** | **75.00%**
K2	Identify the best practices and standards and their applications in the field of Information Technology.	• Quizzes • Short cognitive tests. • Mid Terms • Final Exams	70%	**73.22%** | **76.79%** | **75.01%**
K3	Identify user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems.	• Quizzes • Short cognitive tests. • Mid Terms • Final Exams	70%	**64.85%** | **77.21%** | **71.03%**
K...				
Skills				
S1	Analyze a problem to identify and define the computing	• Quizzes • Assignments • Lab Assignments/Tasks	70%	**72.18%** | **76.79%** | **74.48%**

	requirements appropriate to its solution.	• Lab Exam • Mid Terms • Final Exams • Project		
S2	Design, implement, and evaluate complicated computer-based system, process component, or program to meet desired needs.	• Quizzes • Assignments • Lab Assignments/Tasks • Lab Exam • Mid Terms • Final Exams • Project	70%	**74.20%** | **77.21%** | **75.70%**
S3	Apply current technical concepts and practices in the core information technologies of human computer interaction, information management, programming, networking, web systems and technologies.	• Quizzes • Assignments • Lab Assignments/Tasks • Lab Exam • Mid Terms • Final Exams • Project	70%	**75.07%** | **77.33%** | **76.20%**
S4	Integrate IT-based solutions into the user environment effectively.	• Quizzes • Assignments • Lab Assignments/Tasks • Lab Exam • Mid Terms • Final Exams • Project	70%	**77.00%** | **77.33%** | **77.17%**
S5	Analyze user needs and apply existing state-of-the-art techniques, skills, and tools necessary for selection, creation, integration, evaluation, and administration of Computer-based systems.	• Quizzes • Assignments • Lab Assignments/Tasks • Lab Exam • Mid Terms • Final Exams • Project	70%	**73.21%** | **76.79%** | **75.00%**

S6	Function effectively as a member or leader of a team engaged in activities appropriate to the Information Technology.	• Quizzes • Assignments • Lab Assignments/Tasks • Individual and group activity • Lab Exam • Mid Terms • Final Exams • Project	70%	**74.81%** | **83.95%** | **79.38%**
Values, autonomy, and responsibility				
V1	Communicate effectively in a variety of professional contexts.	• Student Presentations • Viva/Oral Tests • Lab Assignments • Individual and group activities • Project	70%	**81.07%** | **81.88%** | **81.47%**
V2	Adhere to professional, ethical, legal, security, and social issues and their responsibilities.	• Student Presentations • Viva/Oral Tests • Lab Assignments • Individual and group activities • Project	70%	**80.08%** | **73.75%** | **76.92%**
V3	Analyze the local and global impact of computing on individuals, organization, and society.	• Student Presentations • Viva/Oral Tests • Lab Assignments • Individual and group activities • Project	70%	**74.21%** | **73.75%** | **73.98%**
V4	Recognize the need for and an ability to engage in continuing professional development	• Student Presentations • Viva/Oral Tests • Lab Assignments • Individual and group activities • Project	70%	**79.37%** | **73.75%** | **76.56%**

*Attach a separate report on the program learning outcomes assessment results for male and female sections and each branch (**if any**).

Further details can be found in the following two documents provided in the same directory of this Annual Report

- PLO Cyclic analysis
- PLO analysis (last 4 years)

Strengths:

Direct Assessments

- Nearly all 13 PLOs have met the minimum threshold
- Students performed very well in the value-based PLOs
- The highest PLO scores were achieved by V1 (81.07%), V2(80.08%), and V4 (79.37%)
- The students in particular performed well in Graduation Projects and Elective courses
- In some course, students achieved significant percentages in CLOs of 80% and above

Indirect Assessments

- All PLOs were well above the threshold
- S6 achieved the highest percentage of 83.95%
- From 13 PLOs, 10 PLOs were above 75%

Aspects that need improvement with priorities:

Direct Assessments

- K3 PLOs was below the required threshold, and thus improvement needs to be made in this PLO
- As per our analysis some PLOs are mapped by very few courses. For example, K1 was mapped by 43 courses in comparison to S4 that was mapped by only 7 courses from a total of 66 courses taught in the academic year.
- The percentage in which courses are not meeting their respective CLOs needs to be lowered.
- In some courses, the CLOs percentage is extremely low. For example, the Operating Systems course taught in Term 2 achieved 14.38% in K1, 51.25% in K2, 28.13% in K3, 38.12% in S1, 65.44% in S3 and 68.02% in S6. While, S3 and S6 are still acceptable, but any attainment lower than 50% is quite alarming and special attention should be taken for a course during a semester if percentage is falling to such level.
- Gradually, the program should ensure that higher threshold are achieved but for the moment it should stick to 70. This can be improved by improving the quality of student intake or take timely action if CLO attainment if falling below the threshold during a semester.

Indirect Assessments

- Attention should be given to courses with courses with indirect assessment lower than the threshold such as Data Structures and Information Security Courses in Term 2 where all percentages were in the 60%.

2. Students Evaluation of Courses

Course Code	Course Title	Location	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
CCIT-211	Introduction to Computing	KLB	20	95%	4.0	Good – Minor improvements can enhance quality.
CCCS-212	Programming (I)	KLB	22	92.5%	3.78	Satisfactory – Review course structure and teaching methods
CCIT-213	Technical Writing	KLB	20	100%	4.6	Excellent – Maintain current instructional approach.
CCCS-221	Programming (II)	KLB	36	91%	3.77	Satisfactory – Review course structure and teaching methods
CCCS-222	Discrete Mathematics	KLB	7	80%	4.01	Good – Minor improvements can enhance quality.
CCIT-223	Principles of Information Technologies	KLB	5	95%	3.93	Satisfactory – Review course structure and teaching methods
CCCS-311	Data Structures	KLB	7	100%	3.98	Satisfactory – Review course structure and teaching methods
CCIT-312	Computer Architecture & Organization	KLB	5	100%	3.75	Satisfactory – Review course structure and teaching methods
CCIT-322	Database	KLB	17	100%	4.27	Good – Minor improvements can enhance quality.
CCIT-323	System Analysis & Design	KLB	20	100%	4.15	Good – Minor improvements can enhance quality.

Course Code	Course Title	Location	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
CCIT-321	Operating Systems	KLB	10	100%	4.21	Good – Minor improvements can enhance quality.
CCIT-414	Software Engineering (I)	KLB	18	100%	3.5	Satisfactory – Review course structure and teaching methods
CCIT-412	Human-Computer Interaction	KLB	16	100%	3.88	Satisfactory – Review course structure and teaching methods
CCIT-411	Computer Networks	KLB	13	100%	3.99	Satisfactory – Review course structure and teaching methods
CCIS-323	Introduction To Software Project Management	KLB	14	100%	3.83	Satisfactory – Review course structure and teaching methods
CCIT-413	IT Issues & Management	KLB	11	100%	4.02	Good – Minor improvements can enhance quality.
CCIT-424	Software Design Patterns	KLB	18	100%	3.83	Satisfactory – Review course structure and teaching methods
CCIT-423	Multimedia Technologies	KLB	10	100%	3.7	Satisfactory – Review course structure and teaching methods
CCIT-422	Advanced Programming	KLB	9	100%	3.62	Satisfactory – Review course structure and teaching methods
CCIT-421	Information Security	KLB	16	100%	3.78	Satisfactory – Review course structure and teaching methods
CCIT-512	Internet Applications	KLB	6	55%	4.1	Good – Minor improvements can enhance quality.

Course Code	Course Title	Location	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
CCIT-511	Senior Project 1	KLB	8	100%	3.99	Satisfactory – Review course structure and teaching methods
CCIT-513	Database Administration	KLB	13	100%	3.6	Satisfactory – Review course structure and teaching methods
CCIS-512	Professional Computing Issues	KLB	18	97%	3.82	Satisfactory – Review course structure and teaching methods
CCIT-522	Needs Assessment & Technology Evaluation	KLB	17	100%	3.92	Satisfactory – Review course structure and teaching methods
CCIT-523	Networks Administration	KLB	22	100%	3.64	Satisfactory – Review course structure and teaching methods
CCIT-426	Database 2	KLB	15	100%	3.9	Satisfactory – Review course structure and teaching methods
CCIT-529	Selected Topics in IT*	KLB	11	100%	3.63	Satisfactory – Review course structure and teaching methods
CCIT-414	Software Engineering 1	KHB	60	100%	4.80	Excellent – Maintain current instructional approach.
CCIT-414	Software Engineering 1	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.

Course Code	Course Title	Location	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
CCIT-423	multimedia technology	KHB	60	100%	4.97	Excellent – Maintain current instructional approach.
CCIT-423	multimedia technology	KHB	60	100%	4.57	Excellent – Maintain current instructional approach.
CCIT-512	Internetwork Applications	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-512	Internetwork Applications	KHB	60	100%	4.93	Excellent – Maintain current instructional approach.
CCIT-431	Summer training	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-513	Database management	KHB	60	100%	4.13	Good – Minor improvements can enhance quality.
CCIT-513	Database management	KHB	60	100%	4.30	Good – Minor improvements can enhance quality.
CCIT-428	Software Engineering 2	KHB	60	100%	4.13	Good – Minor improvements can enhance quality.
CCIT-428	Software Engineering 2	KHB	60	100%	4.23	Good – Minor improvements can enhance quality.
CCIT-517	wireless data networks	KHB	60	100%	4.30	Good – Minor improvements can enhance quality.

Course Code	Course Title	Location	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
CCIT-517	wireless data networks	KHB	60	100%	4.40	Good – Minor improvements can enhance quality.
CCIT-425	computer graphics	KHB	60	100%	3.63	Satisfactory – Review course structure and teaching methods
CCIT-322	Databases	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-322	Databases	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-425	computer graphics	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-428	Software Engineering 2	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-428	Software Engineering 2	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
CCCS-222	Discrete mathematics	KHB	60	100%	4.97	Excellent – Maintain current instructional approach.
CCCS-222	Discrete mathematics	KHB	60	100%	4.97	Excellent – Maintain current instructional approach.

Course Code	Course Title	Location	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
CCIS-512	Computer topics and issues	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-425	computer graphics	KHB	60	100%	4.97	Excellent – Maintain current instructional approach.
CCIT-428	Software Engineering 2	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-428	Software Engineering 2	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
CCIS-323	Introduction to Software Project Management	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
CCIS-323	Introduction to Software Project Management	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-523	Network Management	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-523	Network Management	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-517	wireless data networks	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.

Course Code	Course Title	Location	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
CCIT-517	wireless data networks	KHB	60	100%	5.00	Excellent – Maintain current instructional approach.
ESPE-201	Introduction to Special Education	KHB	60	100%	3.33	Satisfactory – Review course structure and teaching methods
CCIT-322	Databases	KHB	60	100%	3.07	Satisfactory – Review course structure and teaching methods
CCIT-322	Databases	KHB	60	100%	2.87	Below Average - revise content, enhance teaching methods, and provide additional student support to improve learning outcomes.
CCIT-411	computer networks	KHB	60	100%	1.90	Below Average - revise content, enhance teaching methods, and provide additional student support to improve learning outcomes.
CCIT-411	computer networks	KHB	60	100%	2.67	Below Average - revise content, enhance teaching methods, and provide additional student support to improve learning outcomes.

Course Code	Course Title	Location	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
CCIT-512	Internetwork Applications	KHB	60	100%	2.33	Below Average - revise content, enhance teaching methods, and provide additional student support to improve learning outcomes.
CCIT-512	Internetwork Applications	KHB	60	100%	3.20	Satisfactory – Review course structure and teaching methods
BCIS-221	Principles of Management Information Systems	KHB	60	100%	3.27	Satisfactory – Review course structure and teaching methods
CCCS-222	Discrete mathematics	KHB	60	100%	4.00	Good – Minor improvements can enhance quality.
CCCS-222	Discrete mathematics	KHB	60	100%	4.00	Good – Minor improvements can enhance quality.
CCIS-512	Computer topics and issues	KHB	60	100%	4.00	Good – Minor improvements can enhance quality.
CCIT-425	computer graphics	KHB	60	100%	4.00	Good – Minor improvements can enhance quality.
CCIT-428	Software Engineering 2	KHB	60	100%	4.03	Good – Minor improvements can enhance quality.
CCIT-428	Software Engineering 2	KHB	60	100%	4.00	Good – Minor improvements can enhance quality.

Course Code	Course Title	Location	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
CCIT-322	Databases	KHB	60	100%	4.93	Excellent – Maintain current instructional approach.
CCIT-322	Databases	KHB	60	100%	4.70	Excellent – Maintain current instructional approach.
CCIT-422	Advanced programming	KHB	60	100%	4.83	Excellent – Maintain current instructional approach.
CCIT-422	Advanced programming	KHB	60	100%	4.93	Excellent – Maintain current instructional approach.
CCIT-424	Software design models	KHB	60	100%	4.87	Excellent – Maintain current instructional approach.
CCIT-424	Software design models	KHB	60	100%	4.90	Excellent – Maintain current instructional approach.
CCIT-512	Internetwork Applications	KHB	60	100%	4.63	Excellent – Maintain current instructional approach.
CCIT-512	Internetwork Applications	KHB	60	100%	4.80	Excellent – Maintain current instructional approach.
CCIT-522	Needs and Technology Assessment	KHB	60	100%	4.87	Excellent – Maintain current instructional approach.

Course Code	Course Title	Location	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
CCIT-522	Needs and Technology Assessment	KHB	60	100%	4.97	Excellent – Maintain current instructional approach.
CCIT-512	Internetwork Applications	KHB	27	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-512	Internetwork Applications	KHB	27	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-512	Internetwork Applications	KHB	27	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-513	Database management	KHB	27	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-513	Database management	KHB	27	100%	4.70	Excellent – Maintain current instructional approach.
CCIS-323	Introduction to Software Project Management	KHB	27	100%	5.00	Excellent – Maintain current instructional approach.
CCIS-323	Introduction to Software Project Management	KHB	27	100%	4.58	Excellent – Maintain current instructional approach.
CCIT-413	Information Technology and Management	KHB	27	100%	4.61	Excellent – Maintain current instructional approach.

Course Code	Course Title	Location	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
CCIT-413	Information Technology and Management	KHB	27	100%	3.21	Satisfactory – Review course structure and teaching methods
CCIT-421	Information security	KHB	27	100%	3.70	Satisfactory – Review course structure and teaching methods
CCIT-421	Information security	KHB	27	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-424	Software design models	KHB	27	100%	4.00	Good – Minor improvements can enhance quality.
CCIT-424	Software design models	KHB	27	100%	4.58	Excellent – Maintain current instructional approach.
CCIT-512	Internetwork Applications	KHB	27	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-512	Internetwork Applications	KHB	27	100%	4.18	Good – Minor improvements can enhance quality.
CCIT-513	Database management	KHB	27	100%	3.15	Satisfactory – Review course structure and teaching methods
CCIT-513	Database management	KHB	27	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-523	Network Management	KHB	27	100%	4.06	Good – Minor improvements can enhance quality.

Course Code	Course Title	Location	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
CCIT-523	Network Management	KHB	27	100%	4.64	Excellent – Maintain current instructional approach.
CCIT-426	Databases 2	KHB	27	100%	4.79	Excellent – Maintain current instructional approach.
CCIT-426	Databases 2	KHB	27	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-529	Selected Topics in Information Technology	KHB	27	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-513	Database management	KHB	27	100%	5.00	Excellent – Maintain current instructional approach.
CCIT-513	Database management	KHB	27	100%	4.45	Good – Minor improvements can enhance quality.
CCIT-427	Data Network Design and Evaluation	KHB	27	100%	5.00	Excellent – Maintain current instructional approach.

3. Students' Evaluation of Program Quality

Evaluation Date: 16th July 2024	Number of Participants: 2805
Students Feedback	**Program Response**
Strengths: • Courses offered and their content • Quality of teaching staff • Course teaching environment • Course learning outcomes	**Overall, the students are quite stratified with he program offered where they rated it 4.0 (80%) on average in all categories out of 5.0. Among the evaluations, the students rated the courses offered and their content highly. This shows that the**

	program still has demand in the market and the students are appreciations the content being offered in them. Moreover, the students rated the faculty members teaching the courses highly. Lastly, students shows appreciations for the different learning outcomes of courses. The program will try to ensure that this consistency is ensured as courses are improved or new courses are added to the program.
Areas of Improvement: • Overall experience • Assessment methods • Difficulty of questions with respect to course	Among the improvements highlighted, the program will try to elevate the experience by providing improving existing facilities such as classrooms, projectors, labs, washrooms, restaurants, clubs/societies, learning management systems. In the evaluation, it can be seen that more assessment techniques can be added to evaluate the students. Moreover, the difficulty of questions need to be addressed by ensure that enough time is given on topics and that difficulty of the questions are appropriate for the student at that level.
Suggestions for improvement: • Better labs • More trending courses	The students highlighted that existing labs to be improved. This concern is under our radar and ample efforts are being made to improve our existing labs. The students also suggested for adding more courses based on current trends. The department will note this concern and ensure that when developing a new IT plan it has new courses that will be useful for the students in the next 10-20 years.

A detail Survey analysis report is also provide for Program Quality Analysis

4. Scientific research and innovation during the reporting year

Activities Implemented	Number (Khulais + Alkamil)
Published scientific research	59 + 3 = 62
Current research projects	20
Conferences organized by the program	1

Seminars held by the program	42
Conferences attendees	200
Seminars attendees	630

Discussion and analysis of scientific research and innovation activities:

The department is giving decent time and putting decent effort in ensuring research is conducted at a decent level despite not having a PG program.

5. Community Partnership

Activities Implemented	Brief Description*
Paper to electronic transformation	The importance of digital transformation and helping primary school teachers replace primitive paper methods and use technology in the third primary school in Khulais. It was in 1445-02-26.
Your examination.. evidence of your awareness	Breast cancer awareness, prevention and screening benefits. It was in 1445-03-25 – 1445-03-16
food basket	The volunteers collected and prepared a set of food baskets containing some basic needs for needy families and delivered them to them. It was in 1445-04-11.
Intimacy and giving	Highlighting the role of society in serving the elderly by visiting the nursing home in Al Rehab. It was in 1445-04-16.
A touch of giving	Highlighting the role of society in serving people with special needs by visiting the university's comprehensive rehabilitation center. It was in 1445-04-19.
Thank you initiative	Highlighting the role of society in appreciating the efforts of security personnel in the Khulais branch colleges. It was in 1445-04-20
Thank you for your generosity	Volunteers prepared and served breakfast to female workers at the Jeddah University branch in Khulais. It was in 1445-07-24
Ramadan basket	Highlighting the role of society in solidarity for the workers of the Khulais branch. It was in 1445-09-01.
Your giving is good	Highlighting the role of society in solidarity by preparing Ramadan bags. It was in 1445-09-18
Ramadan is good	Volunteers prepared meals and distributed them to fasting people in different places in Jeddah and Khulais governorates during the holy month of Ramadan for the year 1445 AH. It was in 1445-09-15
smile	Establishing the noble prophetic guidance in the souls of college students. It was in 1445-10-27.
We read to learn	Highlighting the role of reading in expanding and enriching female students' scientific, cultural, linguistic and cognitive knowledge through reading stories of the prophets and scientific books in general. It was -26 1445-10

Community e-learning and technology	Benefiting high school students from modern technology. It was in 1445-10-28
Make your own bouquet	Teaching students the art of decoration in making flower bouquets. It was in 1445-10-21

*including timing of implementation, number of participants, and outcomes.

Comment on community partnership activities**

Decent number of activities having been conducted to meet the college and program objective of instilling value based learning among students

**including overall evaluation of the program's performance in these activities (if any).

6. Other Evaluation (if any)

(e.g., independent reviewer, program advisory committee, and stakeholders (e.g., faculty members, alumni, and employers)

Evaluation method: Survey Form	Date: 18th Sep 2023	Number of Participants: 2
Summary of Evaluator Review	Program Response	
Strengths: • The students are motivated and are eager to work • The students have the required skillset for the job • They have the research and communication skills	The skills offered in the program are sufficient, and the graduates produced are motivated to working in the industry.	
Points for Improvements: • More emphasis should be given towards leadership skills • Moreo emphasis should be given towards teamwork basis assignments	This was highlighted in the PLO section as well that more tasks should be assigned towards Value based assessment that improves leadership and teamwork qualities	
Suggestions for development: • Introduce more specialties within the program • Produce even higher quality graduates	More specialization need to be offered by the program to meet the market demands. Moreover, the quality level of graduates may be improve to make our graduates standout from the competition.	

*Attach independent reviewer's report and stakeholders' survey reports (if any).

Survey analysis from Alumni and Employer's Satisfaction is provided

C. Program Key Performance Indicators (KPIs)

Including the key performance indicators required by the NCAAA.

No	KPI	Targeted Value	Actual	Internal Benchmark (CS from CCSE UJ)	Analysis	New Target
KPI-P-01	Students' Evaluation of quality of learning experience in the program	4.0%	3.87	3.66	Students evaluation of the program is above 75% (>3.5) but our target is to achieve 4.0% and we will ensure to address the shortcomings to improve the rating	4.0%
KPI-P-02	Students' Evaluation of quality of learning experience in the program	4.50	3.95	4.16	While the rating is above average, year it is much lower than the program's target. Special attention needs to be given to convey learning outcomes to students and ensure that students meet them	4.50
KPI-P-03	Completion rate	90%	52.63%	96.50%	The program falls short of the target. This rate is lower in female students in particular. The students	90%

					should be motivated and special sessions should be held to encourage them to complete their program.	
KPI-P-04	First-year students retention rate	100%	94.46	96.50%	While the target was achieved for male students, the female retention rate is lower. Special sessions should be held for them	100%
KPI-P-05	Students' performance in the professional and/or national examinations	N/A	N/A	N/A	Data not available	N/A
KPI-P-06 A	Graduates' employability.	100%	35.05%	70%	While it is objective of every program to ensure that all of its students are employed right away, this may not always be the case. More in depth analysis of why this is the case should be done to learn whether	100%

			24		students are finding difficulty in finding jobs, running their own family business, etc.	
KPI-P-06 B	Enrolment in postgraduate programs	50%	4.35%	0%	The general trend among IT students is towards getting employed in the market instead of pursuing higher studies. This percentage is especially lower in Male students. One of the ways this program can be addressed is by introducing an IT Masters and PhD program.	50%
KPI-P-07	Employers' evaluation of the program graduates proficiency	4	2	3	The employers shows satisfaction with our graduates. We should make sure to maintain this percentage and improve it in the upcoming years	4

KPI-P-08	Ratio of students to teaching staff	25	21	19	This ratio is much higher and it is encourage that the program recruit more faculty members to lower this ratio which will not only help in improving teaching quality but is also required by various accreditation bodies	25
KPI-P-09	Percentage of publications of faculty members	80%	44.75%	20%	This rate is extremely good for male faculty members. The rate can be improved for female faculty members by recruiting more PhD faculty into their program	60%
KPI-P-10	Rate of published research per faculty member	3.15	1.69	.33	Again this percentage is lower in females as a high percentage of their faculty members are MS qualified. To improve research,	2.5

					more PhD female faculty members should be recruited	
KPI-P-11	Citations rate in refereed journals per faculty member	65%	44.25%	44.33%	The rate is extremely good for the program and should be maintained for the upcoming years	50%

Comments on the Program KPIs and Benchmarks results:

Detail analysis are done for each College separately in the evidences provided with the Annual Report

Comments on the Program KPIs and Benchmarks results:

Comments for each KPIs are given in the table above

D. Challenges and difficulties encountered by the program (if any)

Teaching	• The CLOs should be more evenly distributed among different PLOs. Currently some PLOs have very few courses mapped to them • A mechanism should be in place to detect courses where the CLO attainment is well below the threshold so corrective action can be taken place in time
Assessment	• More courses should be mapped to Value based assessments • More leadership and teamwork based assessments should be conducted

	• More emphasis should be given towards lab work and lab exam based assessments • Introduce more assessment types as per new teaching methodologies
Guidance and counseling	• Students should be motivated so that they can be retained in the program • Students should be motivated if they are facing difficulties in the program by providing extra coaching and teaching sessions
Learning Resources	• Learning resources for technology based courses should be review annual (such as Multimedia technologies, Selected topics in IT, Computer Graphics, Computer Networks, Wireless Networks, Computer Organization and Architecture). Students are more motivated towards technologies that are being used nowadays or that are to be used in the future in comparison to outdated technologies.
Faculty	• More faculty may be recruited to improve faculty/student ratio
Research Activities	• More PhD female faculty should be recruited to improve research and citation count
Others	• Teaching facilities provided on campus may be improved. This includes but is not limited to better classrooms, labs, restaurants, sports faculties, club faculties, stationary/printing faculties, common rooms, etc.

E. Program Development Plan

No.	Priorities for Improvement	Actions	Action Responsibility
1	Improve mapping between Program Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs).	Review courses to ensure an even distribution of CLOs among PLOs Increase the number of courses mapped to value-based assessments, particularly in areas like leadership and teamwork.	Program Director
2	Improve retention rates, particularly among female students.	Implement motivational sessions and mentorship programs aimed at improving student retention Provide guidance to students facing challenges	Student Advisors
3	Enhance on-campus resources and lab facilities	Upgrade classroom technologies, laboratories, and student common areas Review and update learning resources for technology-based courses, focusing on modern tools and technologies	Dean of the College
4	Diversify assessment techniques to improve student performance	Introduce new types of assessments in line with modern teaching methodologies, focusing more on lab work and project-based assessments	Course Coordinators

5	Increase student participation in community partnership projects and improve overall program satisfaction	Continue to engage students in value-based community projects and initiatives like those mentioned in the report (e.g., breast cancer awareness, food baskets Encourage feedback from students on program content and extracurricular opportunities to improve program satisfaction rates	Head of Department
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- Attach any unachieved improvement plans from the previous report.
- The annual program report needs to be discussed in the department council

F. Approval of Annual Program Report

COUNCIL / COMMITTEE	DEPARTMENT OF INFORMATION TECHNOLOGY COUNCIL
REFERENCE NO.	47948
DATE:	OCTOBER 22, 2024