



T-106
2022

Annual Program Report





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Program Name: **MS in Cyber security & Digital Forensics**

Program Code (as per Saudi university ranking): *Enter Program Code.*

Qualification Level: **M.Sc**

Department: **IT**

College: **College of Computer & Information Sciences**

Institution: **Majmaah University**

Academic Year: **2023**

Main Location: **College of Computer & Information Sciences**

Branches offering the Program (if any)N/A :

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A. Program Statistics

Item	Number
Number of students enrolled in the program	16
Number of students who started the program (in reporting year)	16
Number of students who completed the program	16

B. Program Assessment

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

#	Program Learning Outcomes	Assessment Methods (Direct and Indirect)	Targeted Performance (%)	Assessment Results
Knowledge and Understanding				
K1	An ability to understand a problem and identify the computing requirements appropriate to its solution	Class Test, Mid Exam, Final Exam	70	85
Skills				
S1	Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions	Class Test, Mid Exam, Final Exam	70	85
S2	Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline	Lab Based Assignments, Mini Project	70	86
S3	Communicate effectively in a variety	Group Assignments, Mini Project	70	95





	of professional contexts			
S4	Identify and analyze user needs and to take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems. [IT]	Case Study Implementation/ Laboratory /Mini project	70	87
S5	An ability to apply knowledge of computing and mathematics appropriate to the discipline	Class Test, Mid Exam, Final Exam	70	95
Values, autonomy, and responsibility				
V1	Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline	Oral or Written Communication, Seminar	70	91
V2	Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles	Class Test, Mid Exam, Final Exam	70	87
V3				
V..				

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

Strengths:

All student out comes (PLOs) attain the exceeding expectation (above than 80%)

Aspects that need improvement with priorities: Increase the Target performance (75%)



2. Evaluation of Courses

Course Code	Course Title	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results (out of 10)	Developmental Recommendations
IT 601	Cybersecurity Foundations	17	100	7.7	Satisfactory
IT 602	Digital Forensics Technology and Practices	17	100	7.9	Satisfactory
IT 604	Cybersecurity Technology and Management	17	100	7.9	Satisfactory
IT 605	Research Methods and Engineering Statistics	16	100	9.5	Satisfactory
IT 611	Network and System Security	16	100	8.2	Satisfactory
IT 624	Malware Development and Countermeasures	16	100	8	Satisfactory
IT 621	Computer Forensics and Investigations	16	100	8	Satisfactory
IT 650	Research Project	16	100	9.4	Satisfactory



3. Students Evaluation of Program Quality

Evaluation Date:	Number of Participants:13
Students Feedback	Program Response
Strengths: <ul style="list-style-type: none"> Curriculum is in line with current market requirements. Scientific supervision learning resources 	<ul style="list-style-type: none"> Curriculum is updated as per market demand Research Project is supervised by Senior and learned faculties
Areas of Improvement: <ul style="list-style-type: none"> laboratories were equipped with PC and Software 	<ul style="list-style-type: none"> Cyber security laboratories will be setup equipped with PC and Software
Suggestions for improvement: <ul style="list-style-type: none"> Academic Advising 	<ul style="list-style-type: none"> Academic guidance will be given to outgoing students

4. Scientific research and innovation during the reporting year

Activities Implemented	Number
Published scientific research	Number
Current research projects	95(SCI-80, Others-15)
Conferences organized by the program	-
Seminars held by the program	2
Conferences attendees	
Seminars attendees	150
Discussion and analysis of scientific research and innovation activities	
<ul style="list-style-type: none"> At least one Conference will organized in latest field of IT so that attendees share, collaborate, and presented their work and engagement in education, networking, and community-building opportunities. 	



5. Community Partnership

Activities Implemented	Brief Description*
Cyber Fraud and New Educational Challenges	Seminar Workshop organized by, Dr.Shailendra Mishra,Dr.A.R Khan and Master Students by inviting Prof Uttam Ghosh, Meharry Medical College as an associate professor of cybersecurity in the School of Applied Computational Sciences and interact with Community & students to explore to career path as advancement in AI.ML and Cybersecurity
Placement training on Cyber Security	Workshop organized by Dr.Shabnam Aslam, Dr.Shailendra Mishra and Dr.Ahamed Razakhan by inviting Alumni working in Cyber Security Agency to speak about the Cyber security practices and interact with students to explore to career path towards job.
Comment on community partnership activities**	
Number students and Faculty participation can be improved.	

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

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

6. Other Evaluation (if any)

Nil

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

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

Evaluation method:	Date:	Number of Participants:
Summary of Evaluator Review		Program Response
Strengths:		
Points for Improvements:		
Suggestions for development:		





C. Program Key Performance Indicators (KPIs)

Including the key performance indicators required by the NCAAA.

Comments on the Program KPIs and Benchmarks results:

KPI No.	KPI	KPI Results			
		Actual	Target Benchmark	Internal Benchmark	External Benchmark*
KPI-PG-1	Students' Evaluation of Quality of learning experience in the Program	4.1	4.5	4.3	4.45
KPI-PG-2	Students' evaluation of the quality of the courses	4.4	4.5	4.5	4.34
KPI-PG-3	Students' evaluation of the quality of academic supervision	100%	80%	80%	94%
KPI-PG-4	Average time for students' graduation	2 years	2 years	2 years	2 Years
KPI-PG-5	Rate of students dropping out of the program	21% (In First Semester)	10%	22% (In First Semester)	5%
KPI-PG-6	Employers' evaluation of the program graduates' competency	Not Measured	4	Not Measured	Not available





KPI-PG-7	Students' satisfaction with services provided	60%	90%	86%	89.6%
KPI-PG-8	Ratio of students to faculty members	5:1	6:1	6:1	3:1
KPI-PG-9	Percentage of publications of faculty members	100%	60%	100%	79.17%
KPI-PG-10	Rate of published research per faculty member	5	1	5	2.33
KPI-PG-11	Citations rate in refereed journals per faculty member	3.01	1	3	1.07
KPI-PG-12	Percentage of students' publication	75%	100%	75%	Not Available
KPI-PG-13	Number of patents, innovative products, and awards of excellence	1	1	0	1

*The King Abdulaziz University's MS Cybersecurity program is chosen as external benchmark as it is close to our program.

- KPI PG-01 attained 4.1 on 5 point scale against targeted value 4.5, focus on KPI 01(Student Learning Experience) ,more services will be provided regarding teaching and learning ,so increase the satisfaction to KPI PG -01.
- KPI 02-KPI 04-Attained the targeted value.





- KPI-PG-5(Rate of students dropping out of the program) was 21%, against targeted value in (In First Semester-10%), due to poor English writing and communication skills, In admission policy, some cutoff must be in place like (TOFEL, ILETS etc.).
- KPI-PG-6(Employers' evaluation of the program graduates' competency) Not Measured , must be measured in the coming Semester/Year
- KPI-PG-7(Students' satisfaction with services provided) attainment was 60% against targeted value 90%, more services will be provided regarding services offered (Lounge, Separate Room for females, Cafeteria, Reading Place, Library to increase the satisfaction to KPI PG -07).
- KPI -PG-08 to KPI -PG-11 Attained the targeted value.
- KPI-PG-12 Percentage of students' publication was 75% against targeted 100%. Motivate students from the beginning, and policy must be in place to give awards for publication.
- KPI-PG-13 Number of patents, innovative products, and awards of excellence - One student Project got award of Excellence from University in 2023.

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

NIL

Assessment	
Guidance and counseling	
Learning Resources	
faculty	
Research Activities	
Others	





E. Program development Plan

No.	Priorities for Improvement	Actions	Action Responsibility
1	Workshop on Blackboard for faculty members	Done	Dr.A.R.Khan
2	Workshop on Program Quality improvement for faculty members	Done	Dr.Jaydev
3	Workshop on new NCAAA Report and Specification	Done	Dr.JayDev/Dr.Mishra
4	Workshop on Course Report preparation for new faculty members	Done	Dr.JayDev/Dr.Mishra
5	Workshop for Community to aware about cybercrime & Cyber Fraud	Done	Dr.Mishra/Dr.Khan
6	Workshop for students to publish papers in scientific journals and conferences	Done	Dr.Shakeel

Attach any unachieved improvement plans from previous report.

The annual program report needs to be discussed in department council

F. Approval of Annual Program Report

COUNCIL / COMMITTEE	IT DEPARTMENT COUNCIL
REFERENCE NO.	11
DATE:	1445-04-29

Alodhyani



