Master of Cybersecurity and Digital Forensics – Program KPIs (2023-24) Analysis and comparison

Standard	Code	Key Performance Indicators	Description	Actual performance 2023-24	Targeted performancelevel	Internal reference (Internal benchmark) 2022-23	External reference (External benchmark 2022-23*)	New target performance level
2- Teachingand Learning	KPI-PG-1	Students' Evaluation of quality of learning experience in the program	Average of overall rating of final year students for the quality of learning experience in the program on a five-point scale in an annual survey	M-4.4 F-4.1 **AV-4.3**	4.5	4.1	4.45	4.5
	KPI-PG-2	Students' evaluation of the quality of the courses	Average students overall rating for the quality of courses on a five-point scale in an annual survey	M-4.5 F-4.2 **AV-4.35**	4.5	4.4	4.34	4.5
	KPI-PG-3	Students' evaluation of the quality of academic supervision	Average students' overall rating of the quality of scientific supervision on afive-point scale in an annual survey.	M-4.5 F-4.4 **AV-88%**	80%	100%	94%	80%
	KPI-PG-4	Average time for students' graduation	Average time (in semesters) spent by students to graduate from the program.	2 years	2 years	2 years	2 Years	2 years
	KPI-PG-5	Rate of students dropping outof the program	Percentage of students who did not complete theprogram to the total number of students in the same cohort.	M-20% F-0% **AV-10%**	10%	15%	5%	10%
	KPI-PG-6	Employers' evaluation of the program graduates'	Average of overall ratingof employers for the competency of the	4.6	4	Not Measured	Not available	4

Category	KPI code	Name	Description	Measurement				
		competency	program graduates on afive point scale in an annual survey.					
-3- Students	**KPI-PG-7**	**Students' satisfaction with the provided services**	Average of students' satisfaction rate with thevarious services providedby the program (food, transportation, sport facilities, academic advising,) an annual survey.	M-92% F-85% **AV-88%**	90%	60%	89.6%	90%
-4- FACULTY MEMBERS	**KPI-PG-8**	**Ratio of students to faculty members**	Ratio of the total number of students to the total number of full-time and full-time equivalent facultymembers participating in the program.	M-3:1 F-15:1 **AV-5.1**	6:1	6:1	3:1	6:1
-6- RESEARCH AND PROJECTS	**KPI-PG-9**	**Percentage of publications of faculty members**	Percentage of faculty members participating inthe program with at least one research publication during the year to total faculty members in the program.	M-89% F-100% **AV-90%**	60%	**100%**	79.17%	60%
	KPI-PG-10	**Rate of published research per faculty member**	The average number of refereed and/or published research per each faculty member participating in the program during the year (total number of refereed and/or published research to the totalnumber of	M-89% F-100% **AV-9**	1	5	2.33	2

			faculty members during theyear)				
	KPI-PG-11	Citations rate in refereed journals per faculty member	The average number of citations in refereed journals from published research (total number ofcitations in refereed journals from published research for faculty members to the total published research (	M-2.7 F-0.2 **AV-2.5**	1	3.01	1.07	3.5
	KPI-PG-12	Percentage of students' publication	Percentage of students who : a. published their research in refereed journals b. presented papers in conferences to the total number of students in the programduring the year.	M-92% F-57% **AV-79%**	100%	75%	Not Available	100%
	KPI-PG-13	Number of patents, innovative products, and awards of excellence	Number of: a. Patents and innovative products National and international excellence awards obtained annually by the students and staff of the program.	1	1	0	1	1

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

Analysis

Almost all KPI achieved the target or near to target, except;

KPI-PG-1-Students' Evaluation of quality of learning experience in the program achieved average 4.3 on 5 point scale against the targeted value 4.5

KPI-PG-2-Students' evaluation of the quality of the courses achieved 4.35 against targeted value 4.5

KPI-PG-9- Percentage of publications of faculty members Percentage of faculty members participating in the program with at least one research publication during the year to total faculty members in the program, achieved average 90% against the targeted value 100%.

All KPI are compared with Last year attainment (Internal Reference), attainment level is better than previous Yr (2022-23), except;

KPI-PG-3   Students' evaluation of the quality of academic supervision 88% against 100%, Action plan will prepare so, satisfaction level will improve.

KPI-PG-9- Percentage of publications of faculty members Percentage of faculty members participating in the program with at least one research publication during the year to total faculty members in the program -AV-90% against 100%. Action plan will prepare so, satisfaction level will improve.

Visualization