







Operational Plan Report 1443 H

Master of Science in Chemistry









GOAL 1: To prepare highly qualified graduates equipped with advanced, deep and specialized knowledge in all branches of chemistry.

Initiative (Strategy)	Procedure (Activity)	Responsible	KPIs	Target	Actual	Achievement (%)
1. Increase	1.1 Create and develop	Programs and	KPI-PG-02: Students'			
efficiency of	highly-qualified master's	Curricula	Evaluation of quality of learning	4.75/5	4.5/5	95%
academic	programs.	Committee	experience in the program.			
programs			KPI-PG-11: Percentage of			
			faculty members' distribution	40:30:30	30:40:30	90%
			based on academic ranking.			
	1.2 Measuring the		KPI-PG-03: Students'			
	achievement of learning		evaluation of the quality of the	4.75/5	4.8/5	100%
	outcomes and take		courses.			
	advantage of the feedback.		KPI-PG-13: Satisfaction of			
			beneficiaries with learning	4.5/5	4.6/5	100%
			resources.			
2. Improve the	2.1 Follow up the	Student Services	KPI-PG-02: Students'			
academic and skill	implementation of the	unit	Evaluation of quality of learning	4.75/5	4.5/5	95%
level for new	admission criteria		experience in the program.			
master's students			KPI-PG-05: Average time for	3.5	3.75	93 %
			students' graduation (years)	3.3	3.75	93 70
			KPI-PG-06: Rate of students	0.00/	2.50/	97.5%
			dropping out of the program.	0.0%	2.5%	91.570
3. Attracting	3.1 Contracting with	Faculty	KPI-PG-10 : Ratio of students to		4	100%
highly qualified	highly qualified and	Members Affairs	faculty members	1:1	1.75	100 /0







and excellent	excellent faculty members.	Committee				
faculty members and researchers.	3.2 Improving the college's ability to retain distinguished faculty		KPI-PG-12 : Proportion of faculty members leaving the	0	2	90%
4.5	members.		program	-		
4. Raising the professionalism of faculty members.	4.1 Provide training programs and workshops to develop the competency of faculty members	Academic Development and Quality Unit	KPI-PG-02 : Students' Evaluation of quality of learning experience in the program.	4.75/5	4.5/5	95%
Achievement (%) of Goal 1						96%

Comments:

The satisfaction rate of students for the quality of learning experience (KPI-PG-02) has improved as compared to previous years (1438/1439; 91% and 1439/1440; 90%) but decreased as compared to the academic year 1441 (100%), however, it is matching the target level. The quality of teaching improved by using new teaching strategies, assessment methods, and learning resources. The satisfaction value for beneficiaries with learning resources (KPI-PG-13) is 4.6, higher than the target of 4.5. In the academic year 1443, the average time for students' graduation (KPI-PG-05) was 3.7, which is close to the targeted performance of (7 semesters). The table above showed that the rate of students dropping out of the program (KPI-PG-06) during the academic year 1443 was 2.5%, which does not equate to the targeted level (0%). This satisfactory result could be attributed to students' efficient teaching and supervision. The actual proportion of teaching staff leaving the program annually for reasons other than age retirement to the total number of teaching staff is 10%, markedly exceeding the target, which is good compared with the previous years.









GOAL 2: To enable students to solve the scientific problems and to have research and laboratories skills in chemistry.

Initiative (Strategy)	Procedure (Activity)	Responsible	KPIs	Target	Actual	Achievement (%)
The scientific and skill level for new students	1.1 Follow up the implementation of admission	Graduate Studies	KPI-PG-14 : Satisfaction of beneficiaries with research facilities and equipment.	4.0/5	3.2/5	80%
	standards for the college and academic programs	Committee	KPI-PG-04 : Students' evaluation of the quality of scientific supervision.	5.0/5	4.7/5	94%
2. Continuous improvement of the college infrastructure.	2.1 Providing an infrastructure for educational operations and scientific research. 2.2 Periodic maintenance of the infrastructure of the Department of chemistry	College infrastructure Unit.	KPI-PG-14 : Satisfaction of beneficiaries with research facilities and equipment.	4.0/5	3.2/5	80%
3. Attracting highly qualified and excellent	3.1 Creating research jobs in the college and attracting	Faculty Members	KPI-PG-15 : Percentage of publications of faculty members.	100%	100%	100%
faculty members and researchers.	distinguished researchers	Affairs Committee	KPI-PG-16 : Rate of published research per faculty member.	15	21	100%
4. Encouraging faculty members to participate in	4.1 Monitor the efficiency of the scientific research of	The deanship of the	KPI-PG-15 : Percentage of publications of faculty members.	100%	100%	100%
funded research, locally and internationally	Department	scientific Research	KPI-PG-16 : Rate of published research per faculty member.	15	21	100%



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Achievement (%) of Goal 2						94%
			KPI-PG-17 : Citations rate in refereed journals per faculty member.	150	190	100%

Comments:

As shown in the above table, the program has fully achieved the initiatives for the second goal. The student's satisfaction rate for the quality of scientific supervision during the academic year 1443 was 4.7, which is almost close to the performance level of the previous year (1439-1441), and it was stable over the last three years. The student-supervisor relationship is vital to all research degrees. Therefore, close contact between supervisors and students is essential. The actual satisfaction rate regarding the adequacy of facilities and equipment in the college (KPI-PG-14) is recorded as 3.2, which is lower than the target level in the academic year 1443. The college should Improve the laboratory equipment to achieve the target next year to increase the KPI-PG-14. Over the last three years, the rate of published research per faculty member (KPI-PG-16) was noticeably increased. In addition, the actual recorded citations rate (KPI-PG-17) was higher than the target level, which proves the high quality of the research conducted in the department.









GOAL 3: To enable students in mastering the use of information technology and practicing e

GOAL 3: To enable students in mastering the use of information technology and practicing effective communications to contribute in problem solving and enhancing the community.

Initiative	Procedure (Activity)	Responsible	KPIs	Target	Actual	Achievement				
(Strategy)				Ü		(%)				
1. Student services	1.1 Continuous activation of academic	Student Services		4.5/5	4 5/5	4 5/5	4 5/5	4 5/5	3.8/5	84%
	advising and guidance services.	Unit.	with the provided services.	4.575	3.075	01/0				
2. Providing	2.1 Enhancing educational and research	College	KPI-PG-09: Students' satisfaction							
Software	processes by providing relevant	infrastructure	with the provided services.							
applications and	software applications.	Unit.								
electronic	2.2 Improving the structure of electronic									
communication	communication for educational,			4.5/5	3.8/5	84%				
systems	research and supportive purposes									
	2.3 Follow up on emergency and									
	preventive maintenance of electronic									
	communication infrastructure.									
3. increasing the	3.1 Creating programs and channels to	Community	KPI-PG-13: Satisfaction of							
community	activate community service	services unit	beneficiaries with learning	4 5 15	1.615	1000/				
services	3.2 Raising the level of community services	1	resources.	4.5/5	4.6/5	100%				
	provided by the college's staff and students.									
	Achieve	ment (%) of Goal	3			90%				











Comments:

The rate of Students' satisfaction with the provided services in the academic year 1443 (KPI-PG-09) did not match the target level. The faculty members should raise the quality of the logistics service provided to students. On the other hand, the program didn't achieve the target performance for the satisfaction of beneficiaries with learning resources (KPI-PG-13). The satisfaction level is relatively high due to many efforts in planning and implementing improvements. Staff and students should be provided with awareness sessions about the library, including SDL and its update. Also, the teaching staff should update the textbooks and teaching materials.









GOAL 4: To earn students the skills of independent and lifelong learning and acquiring new advanced knowledge.

Initiative (Strategy)	Procedure (Activity)	Responsible	KPIs	Target	Actual	Achiev ement (%)
1. Student services	1.1 Raising the level of extra- curricular activities.	Student Services Unit.	KPI-PG-02 : Students' Evaluation of quality of learning experience in the program.	4.7/5	4.5/5	95%
2. The Research activities of Department	2.1 Encourage master's students to participate into the research activities	Scientific Research	KPI-PG-16 : Rate of published research per faculty member.	15	21	100%
of Chemistry.	(seminars - Scientific Day – workshops- conferences) organized by the department.	Committee	KPI-PG-04 : Students' evaluation of the quality of scientific supervision.	5.0/5	4.7/5	94%
3. Scientific publishing	3.1 Participation of master students in the Scientific publishing.	Thesis advisor	KPI-PG-04 : Students' evaluation of the quality of scientific supervision.	5.0/5	4.7/5	94%
			KPI-PG-18 : Percentage of students' publication and conferences participation Publication: conferences	70 :10	25:1	30%
4. Master students' feedback	4.1 Provide written and/or oral feedback on classwork and	Course instructors	KPI-PG-02 : Students' Evaluation of quality of learning experience in the program.	4.7/5	4.5/5	95%
	homework		KPI-PG-03 : Students' evaluation of the quality of the courses.	4.7/5	4.65/5	99%
	Act	nievement (%) of (Goal 4			87%











Comments:

The student's evaluation of the quality of courses (KPI-PG-03) supports the third standard of NCAA, i.e., Teaching and Learning. Students' assessment of the quality of their courses in the academic year 1443 is perfect, with a mean response of 4.65 compared to the target level. The satisfaction rate for the quality of the learning experience in the program (KPI-PG-02) was discussed in Goal 1. Moreover, the students rated the quality of scientific supervision (KPI-PG-04) as 94% decreased compared to the academic year 1441 (100%), which accounts for the efficient operational plan aiming at achieving the targeted objectives along with the impactful follow-up of the implementation of the plan. To maintain the sustainability of the extraordinary efforts paid for the operational plan objectives. The rate of published research per faculty member (KPI-PG-16) in the academic year 1443 was discussed in (Goal 2). Regarding the percentage of students' publications (KPI-PG-18), there is only one paper presented at a conference, which is lower than the target level due to the COVID-19 pandemic. However, the published research papers by the faculty members 100 % matches the target level.







GOAL 5: To supply all industrial sectors and scientific institutions in the kingdom with excellent competencies.

Initiative (Strategy)	Procedure (Activity)	Responsible	KPIs	Target	Actual	Achievement (%)
1. Research support and research	1.1 Increase research and financing partnerships with	Research Center.	KPI-PG-19 : Number of patents, innovative products, and awards of excellence.	1:1	0:0	0%
partnerships	relevant authorities.		KPI-PG-18 : Percentage of students' publication and conferences	70 :10	25:1	30%
2. Development of the master's program.	2.1 Creating more disciplines according to the needs of local and national community	Graduate Studies Committee	KPI-PG-08 : Employers' evaluation of the program graduates' competency.	5/5	4/5	80%
	2.2 Developing academic courses in line with the research development and the	Plans and Curriculum Committee	KPI-PG-02 : Students' Evaluation of quality of learning experience in the program.	4.7/5	4.5/5	94%
	needs of the labor market		KPI-PG-03 : Students' evaluation of the quality of the courses.	4.7/5	4.65/5	99%
3. Research proposals	3.1 Focusing on applied research in the industrial fields.	Graduate Studies Committee	KPI-PG-18 : Percentage of students' publication and conferences	70 :10	25:1	30%
			KPI-PG-19 : Number of patents, innovative products, and awards of excellence.	1:1	0:0	0%









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4. Improving the academic job rates of Saudi citizens	4.1 Contracting with Saudi lecturers who hold a Master's degree	Faculty Members Affairs Committee	KPI-PG-07: Graduates' employability.	80%	60%	75%
Achievement (%) of Goal 5						51%

Comments:

In the academic year 1443, the average value of 51% for KPIs that measure the achievement of initiatives in Goal 5 is significantly less than the target performance. This might be due to the Graduates' employability (KPI-PG-07). The actual implementation of KPI-PG-18 is deficient. Also, the actual performance of KPI-PG-19 is zero, where no patents and innovative products and awards of excellence. The college should continue to encourage all faculty members to publish high-quality work.









Conclusion: The following table summarizes the average for actual and target performances of initiatives for each goal of the master's program in the academic year 1443. In conclusion, the overall result showed that the program achieved its target performance of 84%. However, improvement involving more faculty in community service activities is required and increasing the research facilities and equipment.

No	Goal statement	Goal Achievement
1	To prepare highly qualified graduates equipped with advanced, deep and specialized knowledge in all branches of chemistry.	96%
2	To enable students to solve the scientific problems and to have research and laboratories skills in chemistry.	94%
3	To enable students in mastering the use of information technology and practicing effective communications to contribute in problem solving and enhancing the community.	90%
4	To earn students the skills of independent and lifelong learning and acquiring new advanced knowledge.	87%
5	To supply all industrial sectors and scientific institutions in the kingdom with excellent competencies.	51%
	Annual Achievement	84 %

Total number of KPIs used	18
Number of achieved indicators	12
Percentage of achieved indicators of the program operational plan objectives (KPI-PG-01)	67%