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Axis III: Competitive scientific research

The university's strategic objective	The college's strategic objective	Program objectives	Operational objective of the program	Executive Initiative	Executive Officer	Follow-up Officer	Start date	End date	Support	key performance indicator	Target	Actual
Enhancing the efficiency of research production, knowledge investment, and supporting innovation	Enhancing the efficiency of research production, knowledge investment, and	Develop students scientific thinking' ability as chemists to analyze and critically evaluate chemical data and information and solve scientific problems necessary for professional requirements and labor market needs.	Increase the number of research papers published in peer-reviewed scientific journals by 20% compared to the previous year, with a focus on research areas.	Supporting scientific research: Publishing research results knowledge investment	Scientific Research Committee	Program Development and Quality Committee	11/2025	5/2026	Planning and Follow-up Committee, Faculty of Science and Arts	Percentage of scientific publications by faculty members (KPI-P-09)	90%	93%
Developing the postgraduate studies system	Developing graduate programs in accordance with national and international academic standards.		Use survey results to determine the feasibility of creating graduate programs for the chemistry program.	Studying the possibility of creating postgraduate programs at the college.						Average number of published research papers per faculty member (KPI-P-10)	1:1	1:21
										Citation rate in peer-reviewed journals per faculty member (KPI-P-11)	1:100 per year	1:887
										Number of researches serving the Najran community	3 per year	5
										Number of program scientific conferences	3 per year	2
										Employer satisfaction rate creating postgraduate studies program	80%	-



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Research Plan Report of the Scientific Research and Continuing Education Committee for the Chemistry Program for the year

1445/1446 AH

First: execution of initiative activities report

The Initiative	Initiative fields	Conducting executive activities	Executive Initiative	Execution date	Performance indicator	Achievement Index	Target indicator
Supporting scientific research:	Research plans						
	Training programs	Introductory meeting for research project	Dr. Amal Fatthy	17/7/1446	Number of activities	13	10 annually
		Scientific research tools and training students to write a research plan	Dr. Ayda Yousef	28/7/1446			
		Scientific research methods and approaches	Dr. Amal Attran	29/7/1446			
		Scientific writing and documentation of citation references	Dr. Aza Attya	30/7/1446			
		Presentation and recitation skills	Dr. Abeer Yousef	3/8/1446			
		Anticancer drug delivery system: case study	Dr. Hossam Hasan	22/7/1446			
		Heterogeneous catalysis: from bulky crystal to single atom catalysis	Dr. Amal Attran	25/5/1446			
		GC-MS Analysis an antimicrobial activity of fixed oil of Nigella Sativa seeds from Mohal Asser	Dr. Ayda Yousf	25/4/1446			
	Regional and international collaboration	Sensor	D.r Umar D.Ahmed A.Ibrahim	NOV 2025	Number of research groups	3	2 annually
		Photocatalysis	Dr..Farid Dr..Mohd Dr. Jaheer	NOV 2025			
		Catalysis	Amal A. Atran (and from King Khalid University: Tahani M. Bawazeer, Fatmah M.	NOV 2025			



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Chemistry Department

			Alkhatib, Mohamed S. Hamdy)				
Publishing research results	Encourage publishing	Excellence Reward claims	Dr. Moheesn alhamamy	1446/1447	Number of Excellence Reward claims	10	10
			Dr. Jerry Alqthamy			13	
			Dr. Amal Attran			3	
			Dr. Abeer Yousef			1	
			Dr. Ahmed Omar			10	
	Participation in scientific conferences	Highly sensitive and selective fluorescence-based sensing of metal ions using a novel Schiff base chemosensor 10th Asia-Oceania Mass Spectrometry Conference June 22-25, 2025 Ishigaki Island, Okinawa, Japan	Dr. Abeer Yousef Alyami	22-25 June 2025	Number of members participating in scientific conferences	2	3 annually
		2nd International Conference on the Role of Organic, Medicinal and Pharmaceutical Chemistry in Small Molecules Discovery for Biomedical Applications Thermo-/pH-responsive Folic acid-poly(N-isopropylacrylamide-maltodextrin) Nanohydrogels for Resveratrol Breast Cancer Targeted Therapy	Hosam Hasan Khalil	14-15 July 2025			
	Scientific newsletter						
knowledge investment	Developing program curricula and courses						
Studying the possibility of creating postgraduate programs at the college.	Creating postgraduate programs						



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Questionnaire to measure faculty members' satisfaction with scientific research in the program for the year 1446 AH

Electronic questionnaires were conducted on Microsoft Teams to survey the opinions of faculty members regarding scientific research for the academic year 1446 AH.

The results were as follows:

- **Number of participants: 14**
- **Average approval rate for all items: 92.3%**
- **Link to the survey results summary:**

<https://forms.office.com/Pages/AnalysisPage.aspx?AnalyzerToken=mk0rZtP8Ng5Rfj4Skj7JMQOyr1CGVkfV&id=FWtNse63V0m7FLYQoZOkEOKQBvuavvtOrM1ZWILeMz1UN1JBU1pZRVRGOVhOTDU3MDRDSEU3QlpGVS4u>

- **Questionnaire items (Number of responses : 14 responses)**

#	items Evaluation	strongly agree	agree	neutral	disagree	strongly disagree	Total	Average approval rate (%)
1	Keenness to support research and provide all necessary facilities for that.	11	3	0	0	0	67	95.7%
2	Diversity of incentives to encourage faculty members to conduct research.	9	5	0	0	0	65	92.9%



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3	The output of scientific research is compatible with the needs of the labor market.	9	5	0	0	0	65	92.9%
4	Equipment and devices are available in laboratories to carry out various research activities.	7	6	1	0	0	62	88.6%
5	Facilitating joint research with other colleges and centers.	10	4	0	0	0	66	94.3%
6	Evaluation protocols of scientific research are clear and announced.	8	6	0	0	0	64	91.4%
7	Holding seminars and workshops related to scientific research.	9	5	0	0	0	65	92.9%
8	Disseminating research priorities to faculty members on an annual basis.	8	6	0	0	0	64	91.4%
9	Supporting researchers interested in scientific research priorities.	8	6	0	0	0	64	91.4%
10	Diversity of nature and fields of research published by researchers.	9	4	1	0	0	64	91.4%
Average approval of all items								92.3%



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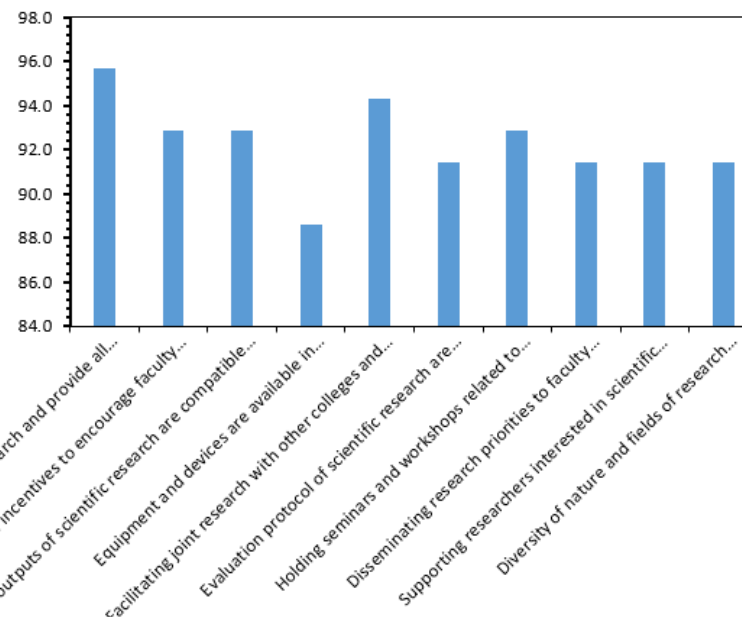
- An illustration of faculty members' opinions on scientific research for the academic year 1446 AH.

AH.

- A report on the opinions of faculty members on scientific research for the academic year 1446 AH.

AH.

Questionnaire to measure faculty members' satisfaction with scientific research in the program for the year 1446 AH



Survey analysis	Faculty members
Strengths	The average rating of faculty satisfaction with scientific research in the Chemistry program was 92.3%.
Improvement suggestions	The survey results indicate that the chemistry program faculty and student satisfaction rate with scientific research was 92.3%. All survey items achieved satisfaction rates above 90%, except for item four, regarding the availability of laboratory equipment. This



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satisfaction rate reached 88.6%, which is a good percentage but should be a priority for improvement.

Strength points

- Number of faculty members participating (trainer) in scientific meetings
- Percentage of faculty members' scientific publications
- Average of published research per faculty member
- Average of citations in peer-reviewed journals for faculty members
- Number of research groups in the Chemistry program
- A group of department research members collaborating with research groups in various countries.
- Number of skill development lectures for students in the 471 Chem 3 research project

Serving the Najran community

- Number of students who received excellence awards.
- Nineteen students received certificates of thanks and appreciation for assuming responsibility and excelling in their outstanding work in the graduation research project.

Improvement Suggestions

- Encourage faculty members to attend courses in research methods, data analysis, and learning scientific presentation techniques, documentation, and proper citation.
- Increase collaboration with researchers from different disciplines or countries to broaden research horizons.



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Activities and Achievement Indicator

Activities	Achievement Indicator	Target Indicator
Number of faculty members participating in scientific meetings	2	3
Percentage of faculty members' scientific publications	93%	90%
Average number of published research papers per faculty member	21:1	1:1
Faculty members' citations in peer-reviewed journals	1:887	1:100
Citation rate in the Chemistry Program	1:887	1:100
Number of research groups in the Chemistry Program	3	2
Number of applied chemical research serving the Najran region	5	3
Number of skill development lectures for female students in the 471 Chemistry 3 Research Project course	13	10
Number of female students who received excellence awards	6	6

Evidence:**تعليمنا يحقق الرؤية**



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Activities	Evidence
Faculty members Participant in scientific meetings	Faculty members Participant in scientific meetings.pdf
Published research per faculty member	Number of research papers for 1446.pdf
Number of citations per faculty member	Number of faculty citations for 1446.pdf
Faculty members' participation in scientific conferences	2nd international conference - Poster 14072025- dr. Hosam Hassan 10th Asia-Oceania Mass Spectrometry Conference.pdf conference 1.jpg
Skills development lectures for students of the Research Project 471 course, Chem	Schedule of skill development lectures for students of the Research Project 471 Chem course.jpg
students who received excellence awards and certificates of thanks and appreciation for assuming responsibility and excelling	Students prize and thanks
Department councils decided to raise excellence	الجلسة التاسعة - مجلس قسم الكيمياء - مجالس الجلسة الثالثة - مجلس قسم الكيمياء - مجالس محضر الجلسة الثانية عشرة لقسم الكيمياء للعام الجامعي 1446هـ محضر الجلسة العاشرة لقسم الكيمياء للعام الجامعي 1446هـ



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rewards and encourage
publication.

بخصوص الرفع بطلب صرف مكافأة التميز لسعادة الدكتور محسن علي الهمامي الأستاذ المشارك بقسم الكيمياء وذلك نظير نشره أبحاث
في مجلات علمية مصنفة - ISI مجالس
محضر الجلسة الرابعة عشرة لقسم الكيمياء للعام الجامعي 1446 هـ
محضر الجلسة الحادية عشرة لقسم الكيمياء للعام الجامعي 1446 هـ

Applied chemical research
serving the Najran region

<https://doi.org/10.1016/j.mssp.2025.109933>
<http://dx.doi.org/10.1007/s13762-025-06592-1>
<https://doi.org/10.1016/j.jphotochem.2025.116675>
<https://doi.org/10.1080/10408347.2023.2197073>
<https://doi.org/10.1016/j.teac.2025.e00263>



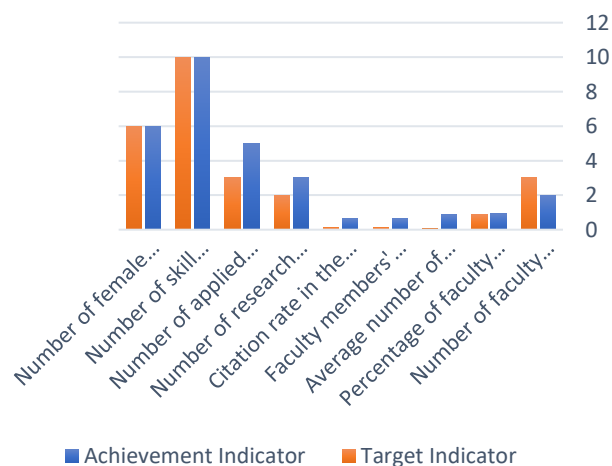
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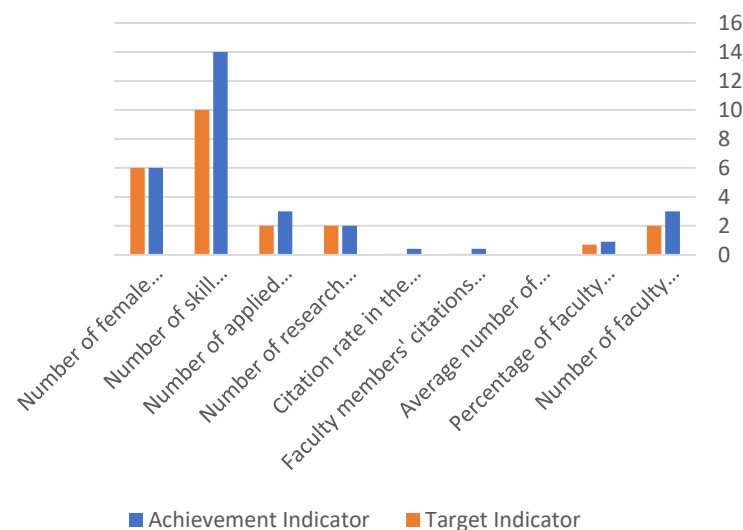
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Activities and Achievement Indicator 1446

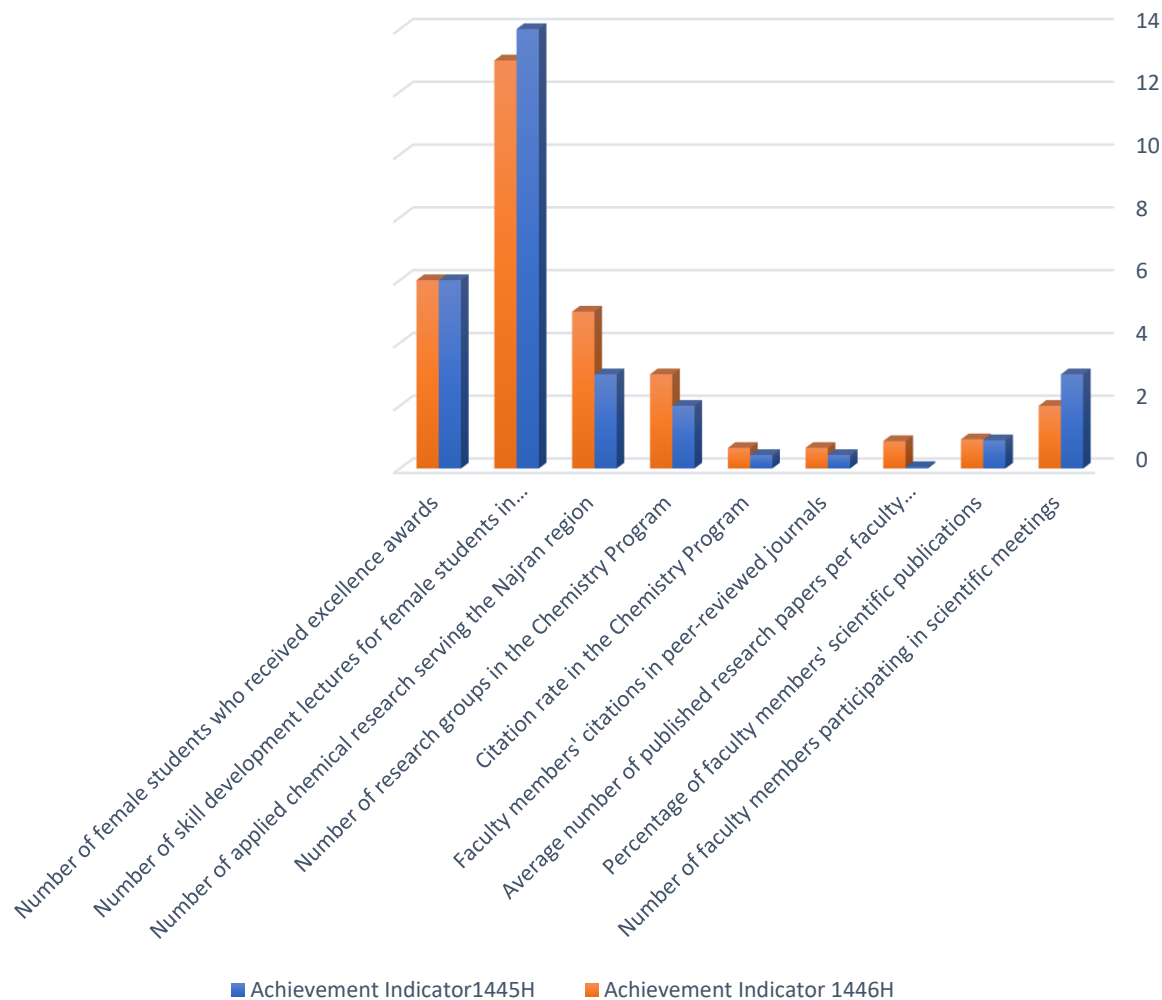


Activities and Achievement Indicator 1445



By comparing the year 1445 with the year 1446, we notice an increase in the number of research groups, the percentage of citations for faculty members, an increase in the number of publications, and the number of research that serves the Najran region.




Comparing (1446-1445) activities





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Scientific Research and Continuing Education Committee

Dr. Ahmed Abdel-Baqi Ibrahim		Chairman
Dr. Amal Fathi Salim		Member
Dr. Hossam Hassan		Member
Professor Ahmad Umar Siddiqe		Member