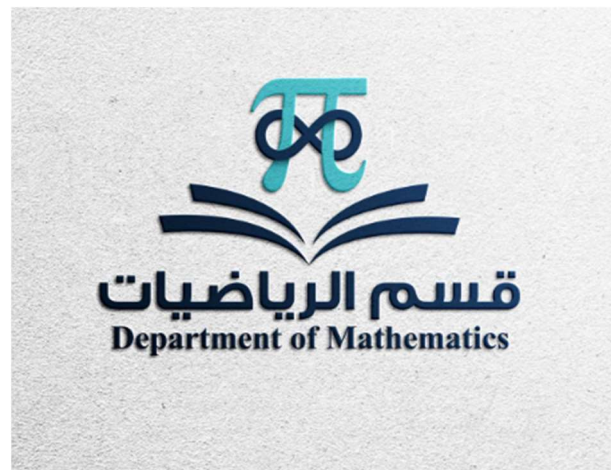


The Strategic Plan For The Department of Mathematics



2020-2025

College of Science, Jazan University

Kingdom of Saudi Arabia

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Introduction:

The Department of Mathematics, College of Science, Jazan University is eager to build a strategy of sustainable development based on the concerned college's strategic plan (2020-2025) to fulfill the needs of the surrounding society as well as the labor market in the Jazan province. The present strategic plan created in accordance with the College of Science's strategic plan, which is in line with that of the strategic objectives of Jazan University's strategic plan (2020-2025) in the light of the Kingdom of Saudi Arabia's vision (2030) as well as the Ministry of Higher Education's strategic plan and with the requirements of the National Center for Academic Accreditation and Assessment (NCAAA) and the University System in Saudi Arabia.

About the Department of Mathematics:

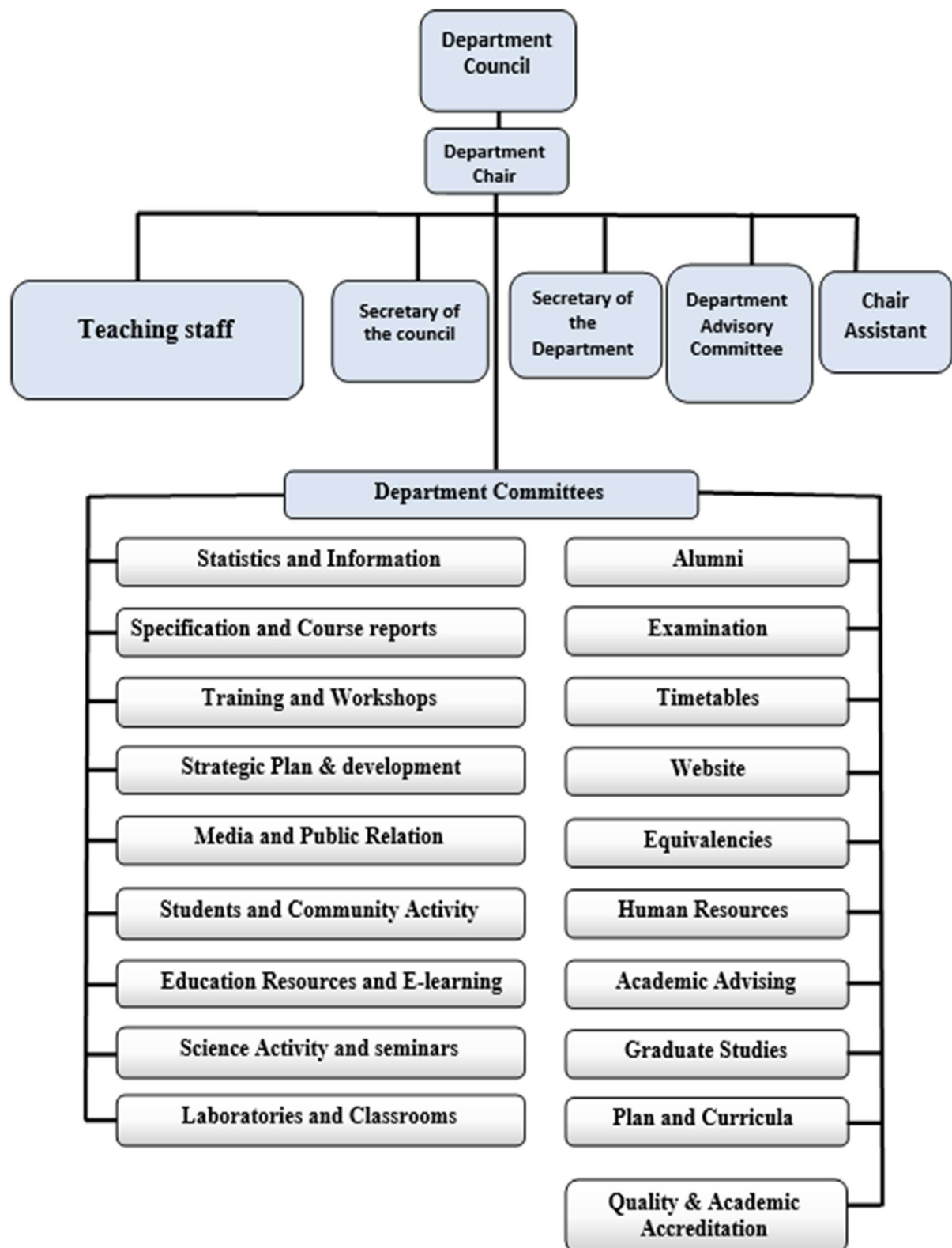
The Department of Mathematics Degree at the College of Science, Jazan University was established in 2006 after the approval letter from the Ministry of Higher Education on 08-08-1426H (12-09-2005AD). A Bachelor of Science (B. Sc.) degree in Mathematics is awarded by the Department of Mathematics. The Department of Mathematics started offering a Master's degree in Mathematics since 2018. The Department seeks continuous development and improvement in teaching, scientific research and community services.

The Department of Mathematics takes the responsibility of Mathematics courses required by other programs of the College of Science such as, Chemistry, Physics, and Biology. The Departments also teach Mathematics, and Statistics courses at the Computer Science, Engineering, Pharmacy, and Management Colleges.

A glimpse of the Mathematics Department through snapshots:



Organization Structure of Mathematics Department with Various Committees:



Strategic plan development methodology:

Proceeding from the Kingdom's vision 2030, the plan of the Ministry of Higher Education and the university system and the results achieved from the strategic plan of Jazan University 2015-2020 in anticipation of the reality of university education in the Jazan region, the Department of Mathematics was keen interested to prepare its strategic plan 2020-2025, which keeps pace with the changes in higher education and the labor market's need for manpower in current and future stage and reviewing the Department's vision, mission and values, whereby the Balanced Scorecard methodology was followed as an effective system and a unified framework for strategic planning and performance management in line with the university's strategic plan (2020-2025).

The strategic plan of the Mathematics Department is based on the four strategic directions from four perspectives that include ten strategic objectives that are measured through 43 key performance indicators (KPIs).

Strategic direction:

The Department's vision and mission have been written in a way that reflects the Department's ambition, as well as the development of strategic goals and initiatives to carry out the vision and mission.

Vision of Mathematics Department:

To achieve Excellences in various fields of Mathematics to meet competitiveness at the regional and the national levels of the Kingdom of Saudi Arabia through teaching, scientific research and community services.

Mission of Mathematics Department:

Produce qualified graduates in mathematics and motivate for scientific research to enrich and serve the surrounding society in light of the vision of the Kingdom of Saudi Arabia 2030.

Values of Mathematics Department:

Commitment to the university and college's recognized organizational values, which stem from the teachings of our religion and our established values and culture, in accordance with the college's strategic plan and striving to consolidate its concepts among the students and employees, as exemplified by the following:

Citizenship:	Cherishing national identity and realize social responsibility
Affiliation:	A sense of commitment and initiative towards the goals and objectives of the Department.
Responsibility:	Adherence to ethical standards and professional values.
Excellence:	Application of standard practices and provision of quality services.
Building Capacity:	Investing in Human Capital
Teamwork:	Devoting the principle of cooperation and work with team-spirit.

The strategic direction was established in accordance with the college's strategic plan, which is as follows:

- 1- Quality of teaching and learning.
- 2- Research efficiency and innovation.
- 3- The effectiveness of community participation.
- 4- Entrepreneurship and development

In order to develop the Department strategic plan, the balanced score card of Mathematics Department (shown on page-9) was used in accordance with the College of Science and Jazan University methodologies, which include the following four perspectives:

First perspective: Institutional Capacity, It contains the following strategic objectives:

1. Providing a comprehensive and perfect education based on the Department's facilities and services.
2. Benefit from the College's information technology infrastructure and enhance it in the Department.
3. Activate and finalize the annual strategy plan for the Department.
4. Improving the competencies of the Department's human resources.

Second perspective: Internal operations which includes the following strategic objectives:

5. Providing a high-quality academic curriculum as well as a comprehensive and outstanding education based on modern educational methodologies.
6. Encourage faculty and students to participate in creative and multidisciplinary mathematics research.

Third perspective: Resources that includes the following strategic objectives:

7. Activating and strengthening the Department's educational, research, and training collaborations.

Fourth Perspective: The Beneficiaries which include the following strategic objectives:

8. Improving and developing the learning outcomes of the program, as well as the abilities of faculty and students.
9. Improving the graduates' efficiency in the Department.
10. Developing the Department's role in community service.

Balanced Scorecard for Mathematics Department

Vision	To achieve Excellences in various fields of Mathematics to meet competitiveness at the regional and the national levels of the Kingdom of Saudi Arabia through teaching, scientific research and community services.			
Mission	Produce qualified graduates in mathematics and motivate for scientific research to enrich and serve the surrounding society in light of the vision of the Kingdom of Saudi Arabia 2030.			
Strategic directions	Quality of teaching and learning	Research and innovation efficiency	The effectiveness of community participation	Entrepreneurship and development
Strategic results	A competent graduate and a competitor in the labor market	A supportive and stimulating environment that enhances the efficiency of research and scientific publishing	Effective community partnerships	Diversify sources of income to achieve financial sustainability

	Strategic Goals	Performance indicators	Initiatives
Beneficiaries		16	20
Resources		2	3
Internal Operations		17	16
Institutional Capacity		11	11
Values	Citizenship, belonging, responsibility, excellence, capacity building, teamwork		

Strategic goals:

The strategic plan for the department of Mathematics outlines ten strategic goals for achieving the desired vision and mission. Key Performance Indicators are followed to monitor the performance. The department aims to achieve the following goals by 2025:

Perspective 1	Institutional Capacity	
Target: 1	Providing a comprehensive and perfect education based on the Department's facilities and services	
Target Code	SCI 01 / MATH 01	
The Description	This goal is to develop the services provided within the educational environment and optimum utilization of the facilities and services in the department. To provide other facilities in order to meet the standard of the quality education. Providing suitable reading rooms for students and offices for faculty members and staff in the department. And, also provide academic facilities such as laboratories, classrooms and other essential resources for student’s activities.	
Strategic Alignment		
Department Goals	College Goals	University Goals
Providing a comprehensive and perfect education based on the Department's facilities and services	Provide comprehensive and optimal education based on the Faculty’s facilities and services	Infrastructure development

KPI's	Key Strategic Initiative
1- The percentage of occupation of classrooms and laboratories	1. Classrooms and laboratories management plan
2- The ratio of students to the number of classrooms	
3- Satisfaction of faculty and administrative staff about support services	2. Support Services Improvement Plan Initiative 3. Measuring beneficiary satisfaction with support services

Perspective: 1	Institutional Capacity	
Target: 2	Benefit from the College's information technology infrastructure and enhance it in the Department.	
Target Code	SCI 02/ MATH 02	
The Description	This goal seeks to activate the technology and exploit technical infrastructure, in addition to ensure its effectiveness in using and supporting the integration and quality of data in its digital framework to serve the educational and administrative process, including systems supporting decision-making based on facts and data.	
Strategic Alignment		
Department Goals	College Goals	University Goals
Benefit from the College's information technology infrastructure and enhance it in the Department	Improving the Faculty’s information technology structure.	Developing an IT infrastructure

KPI's	Key Strategic Initiative
4. Percentage of curricula and programs for which a digital version of their content has been created	4. Providing courses and curricula on the Blackboard platform and its complete activation. 5. Develop qualitative training for the optimal use of electronic platforms
5. The conversion rate for digital transactions	
6. Percentage User satisfaction with information technology	

Perspective: 1	Institutional Capacity	
Target: 3	Activate and finalize the annual strategy plan for the Department	
Target Code	SCI 03/ MATH 03	
The Description	This goal seeks to reach the Department achievements in its strategic plan.	
Strategic Alignment		
Department Goals	College Goals	University Goals
Activate and finalize the annual strategy plan for the Department	Verifying the completion of the Faculty’s annual plans and its governance.	Developing university governance

KPI's	Key Strategic Initiative
7. Percentage of achieved from the objective indicators in the strategic plan of Mathematics	6. Follow up on the implementation of the strategic plan

Perspective: 1	Institutional Capacity		
Target: 4	Improving the competencies of the Department's human resources		
Target Code	SCI 04/ MATH 04		
The Description	This goal is concerned with raising the level of academic competence of faculty members and developing the administrative staff.		
Strategic Alignment			
Department Goals		College Goals	University Goals
Improving the competencies of the Department's human resources		Improving the capabilities of human resources in the college	Improving human capabilities

KPI's	Initiatives
8. Average number of professional development hours completed by faculty members.	7. Workshop implementation and execution in the Department.
9. Percentage of faculty satisfaction with professional development	8. Motivating teaching staff to attend training and workshops according to the training and development needs.
10. Average number of training hours for administrative staff	9. Enhance the satisfaction of faculty staff regarding the training provided
11. Percentage of administrative staff satisfaction with professional development	10. Motivating the administrative staff to attend courses and workshops according the training and development needs.
	11. Enhance the satisfaction of Administrative staff regarding the training provided.

Perspective: 2	Internal Operations	
Target: 5	Providing a high-quality academic curriculum as well as a comprehensive and outstanding education based on modern educational methodologies.	
Target Code	SCI 05/ MATH 05	
The Description	This goal concentrates on the development of academic programs by improving teaching and learning methods in accordance with modern methods based on the use of student-centered strategies, developing complex skills such as critical thinking, understanding, discussion, analysis, conclusion and working to develop traditional evaluation methods in accordance with modern skills and acquired competencies	
Strategic Alignment		
Department Goals	College Goals	University Goals
Providing a high-quality academic curriculum as well as a comprehensive and outstanding education based on modern educational methodologies	Providing high-quality academic programs and provide a comprehensive and optimal education based on modern educational strategies.	Improving academic programs
KPI's		Initiatives
12. Percentage of accredited academic programs		12. Program development to obtain program accreditation
13. Percentage of outstanding students with a GPA of 4.5 in relation to the total number of students		13. Development of teaching aids in the program 14. Develop policies for dealing with low-grade students
14. The percentage of graduation within the specified period		
15. The number of students who get 60% in each learning exit PLO		
16. The dropout rate of students after the first year		
17. Student drop-out rate from academic programs		
18. First-year student retention rate		
19. Students to faculty ratio		15. Adjusting the ratio between students and faculty members to reach the ideal target ratios for the program
20. Percentage of graduates with jobs		16. Providing courses for graduates and keep a direct contact with them. 17. Develop plans and curricula for the program to raise the level of learning outcomes

21. Percentage of faculty members holding a doctorate degree	18. Attracting distinguished members to join the program 19. Increasing the scholarship
22. Percentage of passing standard and professional exams	20. Preparing courses and workshops to prepare students for standardized tests

Perspective: 2	Internal Operations	
Target: 6	Encourage faculty and students to participate in creative and multidisciplinary mathematics research	
Target Code	SCI 06/ MATH 06	
The Description	This goal seeks to encourage faculty and students to participate in creative and multidisciplinary mathematics research.	
Strategic Alignment		
Department Goals	College Goals	University Goals
Encourage faculty and students to participate in creative and multidisciplinary mathematics research	Encouraging faculty members and students and engaging them in innovative and interdisciplinary research.	Increase support for scientific research and innovation

KPI's	Initiatives
23. Percentage of scientific publication	21. Determining the needs of faculty members and conducting workshops and seminars in order to improve scientific publishing
24. Average citations in refereed journals per faculty member	22. Encouraging research partnerships with competing programs in other universities
25. The number of research published in ISI	23. Encouraging research cooperation between program members in various headquarters (headquarters and branches)
26. Number of research papers classified in Scopus	24. Inviting distinguished faculty members in the field of scientific research to give lectures
27. Number of research partnerships	25. Increasing Research Partnerships And the Financial support
28. Number of innovations and entrepreneurship	26. Support innovation, patent registration and intellectual property rights

Perspective: 3	Resources	
Target: 7	Activating and strengthening the Department's educational, research, and training collaborations	
Target Code	SCI 07/ MATH 07	
The Description	This goal focuses on the strengthening partnerships and cooperation with the authorities related to the provision of services education and student employment and training.	
Strategic Alignment		
Department Goals	College Goals	University Goals
Activating and strengthening the Department's educational, research, and training collaborations	Creating and strengthening cooperation and partnerships and guiding students to take advantage of training opportunities from relevant authorities	Strengthening investment partnerships

KPI's	Initiatives
29. Number of conventions and research partnerships obtained in the Mathematic Department	27. Increase the Educational and training partnership agreements in the Department 28. Establishing partnerships with corresponding programs and distinguished research centers
30. Number faculty and Students who are sponsored by the relevant authorities	29. Activating partnerships in scientific research and providing scientific advice to the public and private sectors

Perspective: 4	Beneficiaries	
Target: 8	Improving and developing the learning outcomes of the program, as well as the abilities of faculty and students	
Target Code	SCI 08/ MATH 08	
The Description	This goal seeks to improve educational processes and develop students' professional and technical skills to suit the requirements of the labor market.	
Strategic Alignment		
Department Goals	College Goals	University Goals
Improving and developing the learning outcomes of the program, as well as the abilities of faculty and students	Improving and developing program learning outcomes and developing student skills to suit labor market requirements	Improving the student experience

KPI's	Initiatives
31. The student's assessment of the quality of learning in the courses	31. Optimizing the modern teaching aids in the program and making them available to the students
32. Student assessment of the quality of education in the programs	32. Increasing student representation in the various Department committees. 33. Activating the student's participation in the periodic councils of the program management
33. Student satisfaction with learning resources	34. Providing specialized and modern libraries in all areas of the program. 35. Optimizing the activation of the electronic learning aids in the program and making them available to the students
34. Student satisfaction with the services provided	36. Improving the quality of self-service provided to students
35. Number of courses and workshops offered to the student	37. Improving and implementing the plan of the courses offered to the student
36. Percentage of faculty satisfaction with professional development	38. The opinion of the teaching staff about their satisfaction with the training programs provided
37. Employers' evaluation of the Department's graduates' competency	39. Employers survey

Perspective: 4	Beneficiaries	
Target: 9	Improving the graduates' efficiency in the Department	
Target Code	SCI 09/ MATH 09	
The Description	This goal focuses on linking and aligning the Department’s outputs with the needs of the labor market by expanding the absorptive capacity of priority specializations, and developing programs to focus on Future skills, labor market needs and requirements of the industrial revolution.	
Strategic Alignment		
Department Goals	College Goals	University Goals
Improving the graduates' efficiency in the Department	Improving the efficiency of college graduates	Improving the efficiency of university outputs

KPI's	Initiatives
37. Employers' evaluation of the efficiency of the Department's graduates	40. Employers survey
12. Number of accredited academic programs	41. Seeking academic accreditation for the program
22. Standardized and professional test results	42. Providing courses to develop the skills of graduates or those who are about to graduate. 43. Providing career guidance, technical support and expertise to graduates before they join the labor market. 44. Seeking to provide professional courses and practical training for students of the Department
38. Percentage of graduates who are employed	1. Providing courses to develop the skills of graduates or those who are about to graduate
39. Graduate enrollment rate in postgraduate programs	46. Develop the student's skills in the use of computer softwares. 47. Developing the educational and research infrastructure. 48. Develop student research skills

Perspective: 4	Beneficiaries	
Target: 10	Developing the Department's role in community service	
Target Code	SCI 10/ MATH 10	
the description	This goal seeks to provide community services to all segments of society in the fields of mathematics.	
Strategic Alignment		
Department Goals	College Goals	University Goals
Developing the Department's role in community service	Providing services that meet the needs of society and improve the quality of life	Improving community service and quality of life

KPI's	Initiatives
40. The total number of volunteer hours done by the students in the Department	49. Encouraging and motivating students and teaching staff to serve the community.
41. Beneficiaries' satisfaction with community services	
42. The total number of volunteer hours done by the teaching staff in the Department	
43. Number of community programs and initiatives	50. Introducing the program through social media and the Department's website 51. Introduce the mathematics program for high school middle and elementary students.

Performance indicators:

Perspective	Target	KPI's
Institutional Capacity	Providing a comprehensive and perfect education based on the Department's facilities and services.	1. The percentage of occupation of classrooms and laboratories
		2. The ratio of students to the number of classrooms
		3. Satisfaction of faculty and administrative staff about support services
	Benefit from the College's information technology infrastructure and enhance it in the Department.	4. Percentage of curricula and programs for which a digital version of their content has been created
		5. The conversion rate for digital transactions
		6. Percentage User satisfaction with information technology
	Activate and finalize the annual strategy plan for the Department.	7. Percentage of achieved from the objective indicators in the strategic plan of Mathematics
	Improving the competencies of the Department's human resources.	Average number of professional development hours completed by faculty members.
		9. Percentage of faculty satisfaction with professional development
		10. Percentage of faculty satisfaction with professional development
		11. Average number of training hours for administrative staff
Internal Operations	Providing a high-quality academic curriculum as well as a comprehensive and outstanding education based on modern educational methodologies.	12. Percentage of accredited academic programs
		13. Percentage of outstanding students with a GPA of 4.5 in relation to the total number of students
		14. The percentage of graduation within the specified period
		15. The number of students who get 60% in each learning exit PLO
		16. The dropout rate of students after the first year
		17. Student drop-out rate from academic programs

		18. First-year student retention rate
		19. Students to faculty ratio
		20. Percentage of graduates who are employed
		21. Percentage of faculty members holding a doctorate degree
		22. Percentage of passing standard and professional exams
	Encourage faculty and students to participate in creative and multidisciplinary mathematics research.	23. Percentage of scientific publication for faculty members
		24. Average citations in refereed journals per faculty member
		25. The number of research published in ISI
		26. Number of research papers classified in Scopus
		27. Number of research partnerships
		28. Number of innovations and entrepreneurship
		29. Number of conventions and research partnerships obtained in the Mathematic Department
		30. Number faculty and Students who are sponsored by the relevant authorities
Resources	Activating and strengthening the Department's educational, research, and training collaborations.	
Beneficiaries	Improving and developing the learning outcomes of the program, as well as the abilities of faculty and students.	31. Students' evaluation of the quality of learning in courses
		32. Students' evaluation of the quality of education in the programs
		33. Student satisfaction with learning resources
		34. Student satisfaction with the services provided
		35. Number of courses and workshops offered to students
		36. Evaluation of employers for graduates of the Department
	Improving the graduates' efficiency in the Department.	37. Employers' evaluation of the Department's graduates' competency
		12. Number of accredited academic programs
		22. Standardized and professional test results
		38. Percentage of graduates who are employed
		39. Enrolment of graduates in postgraduate programs
		40. The total number of volunteer hours done by the students in the Department
		41. Beneficiaries' satisfaction with community services

	Developing the Department's role in community service.	42. The total number of volunteer hours done by the teaching staff in the Department
		43. Number of community programs and initiatives