

Kingdom of Saudi Arabia

Jazan University

Faculty of Science

Physics Department

Physics Department Strategic Plan

(2020 – 2025)



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Preamble:

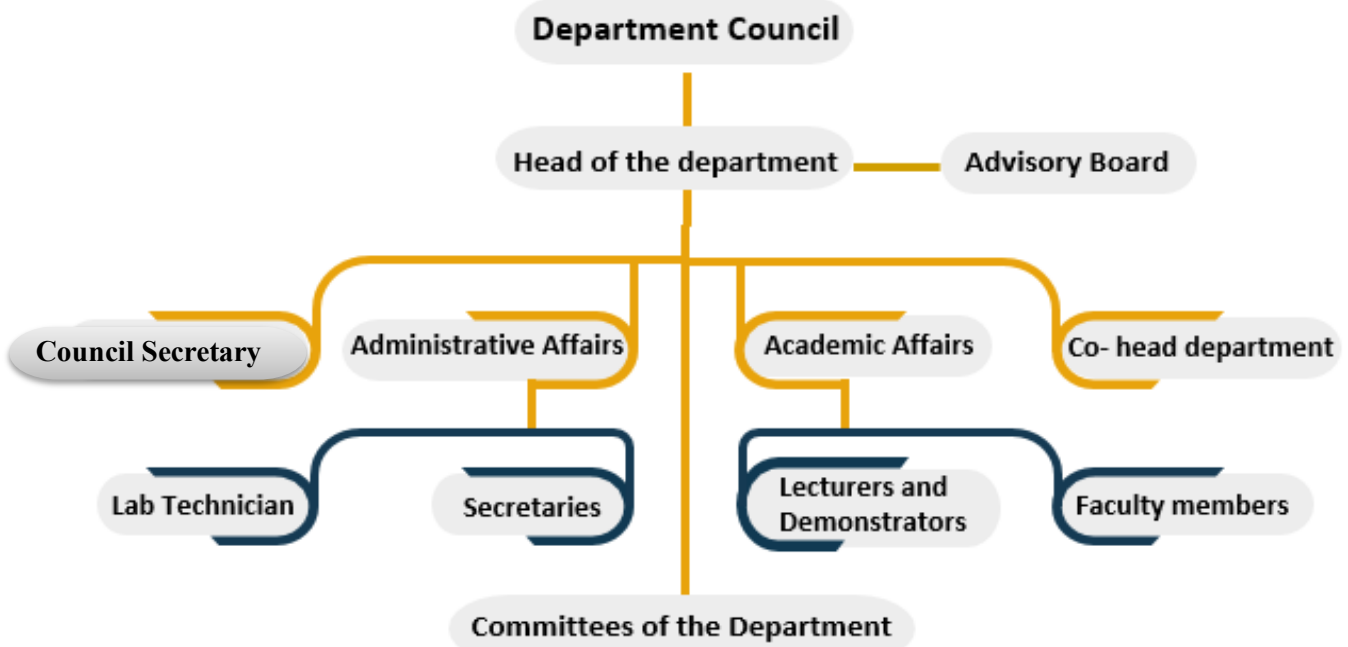
The Department of Physics - (Faculty of Science – Jazan University) has been approved in 07/06/2005 (30/04/1426) with No. 13/37/1426. The establishment of the Physics Department was in response to the university's breakthrough towards scientific leadership and progress to keep pace with the national needs of specialized and trained scientific cadres in various fields of physics.

The Department of Physics is characterized by a qualified professors and researchers provide an appropriate scientific, educational and social environment for the development of the student's intellectual and practical capabilities, to become a solid building block for the nation's development and progress.

The Physics Department established the strategic plan (2020-2025) to keep pace with the latest developments in the Kingdom of Saudi Arabia; that meet the requirements of the local environment in Jazan region and the requirements of the labor market. This plan was designed in line with the strategic plan of the Faculty of Science as well as Jazan University (2020-2025) and in light of the strategic objectives of the vision of the Kingdom of Saudi Arabia 2030, and in line with the strategic plan of the Ministry of Education and the requirements of the National Center of Academic Accreditation and Assessment and the university System.



Organizational Chart of Physics Department



Committees of the Department

- Scientific Research Committee
- Innovation and Entrepreneurship Committee
- Student Activities Committee
- Exam Committee
- Demonstrators and Lecturers Committee
- Scientific Committee
- Schedule Committee
- Public Relations and Media Committee
- Laboratories, Procurement and Safety Committee
- Planning and Development Committee
- Student Affairs and Academic Advising Committee
- Community Partnership and Alumni Committee
- Quality and Academic Accreditation Committee for Bachelor's
- Quality and Academic Accreditation Committee for Postgraduate
- Education, Learning Resources and E-Learning Committee
- Study Plans and Curriculum Committee
- Postgraduate Committee

1. Vision

Physics Department at Jazan University aspires to achieve excellence in physics education, scientific research and community service; to become a groundbreaking of Physics departments locally and globally.

2. Mission

Physics Department provides high quality education, research and innovation in the field of physics to contribute to the development of an effective and dynamic society.

3. Values

Commitment to the organizational values recognized by the university and faculty, which emanate from the teachings of our true religion and our established values and culture, in line with the strategic plan of the university and striving to consolidate its concepts among the employees.

Which are as follows:

Citizenship	Pride in national identity, and sense of social responsibility.
Affiliation	Commitment and initiative towards the goals and objectives of the university.
Responsibility	Commitment to ethical standards and work values.
Excellence	Application of standard practices and the provision of quality services.
Capacity building	Investing in Human Capital.
Teamwork	Establishing the principle of cooperation and teamwork.

Linking the vision and mission of the department with their counterparts of the faculty and the university

Department Mission	Faculty Mission	University Mission
Provision of an academic program in physics and its applications.	Provision of academic programs in basic sciences and their applications.	Education
Development of scientific research and innovation.	Active contribution to the development of scientific research.	Scientific research and innovation.
Effective partnership in community service.	Active contribution of community service.	Community services.
Applications	Applications	Development and Entrepreneurship.

Strategic plan development methodology

Based on the Kingdom's vision 2030, the plan of the Ministry of Education and the university System, and according to the results achieved from the strategic plan of Jazan University 2015-2020, and in projection of the reality of university education in the Jazan region, the department of Physics at the Faculty of Science at Jazan University was keen to prepare its strategic plan 2025-2020, which keeps pace with the requirements of change in higher education and the needs labor market for man power in the current and future phase. Therefore, the Department of Physics was keen on preparing the strategic plan 2020-2025 and reviewing the vision, mission and values of the department, whereby the Scorecard Balanced methodology was followed as

an effective system and a unified framework for strategic planning and performance management in line with the strategic plan of the university -2020-2025. The strategic plan of the Department of Physics was based on four Guidelines Strategy and Four Perspectives, which include ten strategic objectives measured through 46 performance indicators.

Strategic Guidelines of Physics Department

The Strategic Guidelines of the Physics Department emphasize the provision of outstanding and high-quality education and training for undergraduate students in Physics, and the establishment of a sustainable structure for high-impact scientific research in various majors of Physics, and the provision of an outstanding community service to contribute to the development and growth of the community.

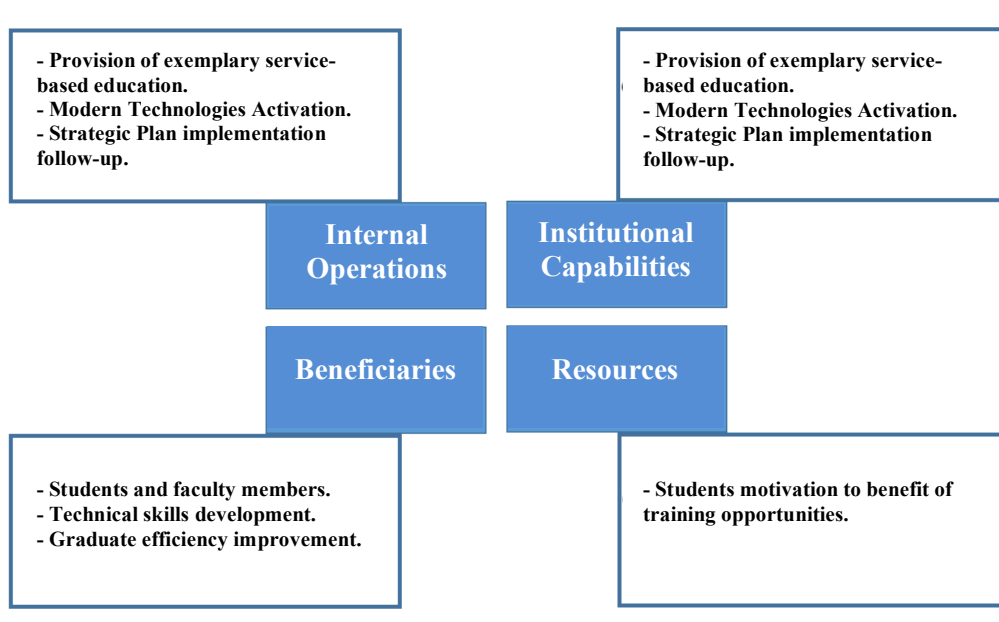
The strategic Guidelines of the department has been determined in line with the Faculty's strategic plan, which are as follows: -

Guidelines of Strategic plan

- Guideline 1:** Quality of teaching and learning.
- Guideline 2:** Research and innovation efficiency.
- Guideline 3:** Community Participation Effectiveness.
- Direction 4:** Entrepreneurship and development.



The balanced performance methodology was followed in designing the department plan, which contains four perspectives:



The first perspective: Institutional capability that includes the following strategic objectives:

1. Providing comprehensive and exemplary learning and training based on services and facilities.
2. Reinforcement of the utilization of the department IT infrastructure.
3. Activate and accomplishment of the department Annual plans.
4. Upgrading and developing the capabilities and skills of Human resources.

The second perspective: Internal operations, including the following strategic objectives:

5. Providing high-impact academic programs in line with up-to-date learning strategies in various fields of physics.
6. Enhanced support and developing the scientific research and innovation in the various fields of the physics department.

The third perspective: Resources, including the following strategic objective:

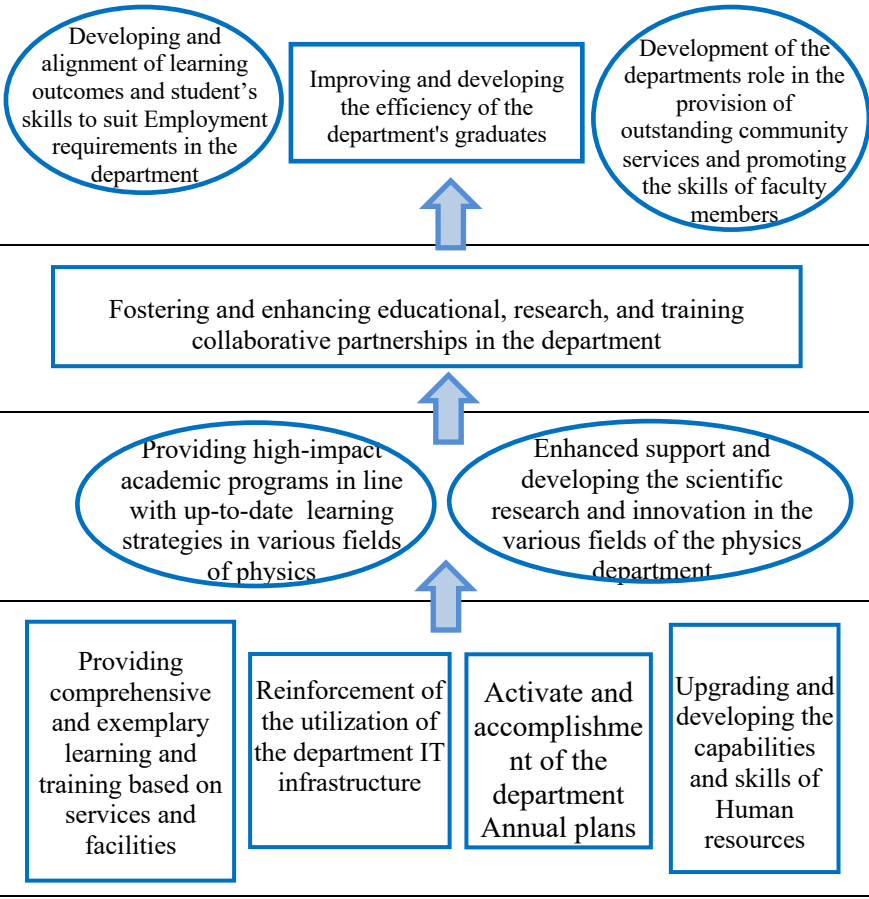
7. Fostering and enhancing educational, research, and training collaborative partnerships in the department .

The fourth perspective: Beneficiaries, including the following strategic objectives:

8. Developing and alignment of learning outcomes and student's skills to suit Employment requirements in the department.
9. Improving and developing the efficiency of the department's graduates .
10. Development of the departments role in the provision of outstanding community services and promoting the skills of faculty members

The balance performance Scorecard

Vision	Physics Department at Jazan University aspires to achieve excellence in physics education, scientific research and community service to become a groundbreaking Physics department locally and globally.			
Mission	Physics Department provides high-quality education, research and innovation in the field of physics to contribute to the development of an efficient and dynamic society.			
Strategic Guidelines	Quality of teaching and learning	Research and innovation efficiency	Community participation efficiency	Entrepreneurship and development
Strategic results	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 objectives		KPI's	strategic initiatives
Beneficiaries	 <p>Developing and alignment of learning outcomes and student's skills to suit Employment requirements in the department</p> <p>Improving and developing the efficiency of the department's graduates</p> <p>Development of the departments role in the provision of outstanding community services and promoting the skills of faculty members</p>	16	17
Resources	<p>Fostering and enhancing educational, research, and training collaborative partnerships in the department</p>	2	3
Internal operations	<p>Providing high-impact academic programs in line with up-to-date learning strategies in various fields of physics</p> <p>Enhanced support and developing the scientific research and innovation in the various fields of the physics department</p>	17	14
Institutional capability	<p>Providing comprehensive and exemplary learning and training based on services and facilities</p> <p>Reinforcement of the utilization of the department IT infrastructure</p> <p>Activate and accomplishment of the department Annual plans</p> <p>Upgrading and developing the capabilities and skills of Human resources</p>	11	11
Value	Citizenship, Affiliation, Responsibility, Excellence, Capacity building and Teamwork		

Strategic Goals Cards

Perspective 1	Institutional capability	
Strategic goal (1)	Providing Comprehensive and exemplary learning and training based on services and facilities.	
Strategic goal Card	SCI 01/ PHYS 01	
Goal description	This goal seeks to improve teaching and learning methods and optimize the facilities and services in the department to be in line with educational quality standards.	
Strategic Alignment		
Department goals	Faculty goals	University goals
Providing Comprehensive and exemplary learning and training based on Department's services and facilities.	Providing Comprehensive and exemplary learning and training based on Faculty's services and facilities	Infrastructure development
Key Performance Indicators KPIs		Key strategic initiatives
1. Rate of classrooms Occupation.	3. Percentage of satisfaction of faculty and administrative staff about the department's services and facilities.	- Classrooms and laboratories management plan. - Support Services Improvement Plan - Measuring the satisfaction of the beneficiaries with the support services and facilities.
2. Ratio of students to number of labs		
3. Percentage of satisfaction of faculty and administrative staff about the department's services and facilities.		

Perspective 1	Institutional capability	
Strategic goal (2)	Reinforcement of the utilization of the department IT infrastructure	
Strategic goal Card	SCI 02/ PHYS 02	
Goal description	This goal seeks to exploit the effectiveness and quality of up to date technologies in the educational and administrative process.	
Strategic Alignment		
Department goals	Faculty goals	University goals
Reinforcement of the utilization of the department IT infrastructure.	Reinforcement of the utilization of the Faculty's IT infrastructure	Reinforcement of the utilization of IT infrastructure
Key Performance Indicators KPIs		Key strategic initiatives
4. Percentage of curricula and programs which have digital version of their content	6. Beneficiaries satisfaction rate about information technology.	Providing and activating courses and curricula on the Blackboard platform. Development of qualitative training courses and workshops
5. Conversion rate for electronic transactions		
6. Beneficiaries satisfaction rate about information technology.		

Perspective 1	Institutional capability	
Strategic goal (3)	Activate and accomplishment of the department Annual plans	
Strategic goal Card	SCI 03/ PHYS 03	
Goal description	Through this goal the Physics Department seeks to achieve its Annual plans.	
Strategic Alignment		
Department goals	Faculty goals	University goals
Activate and accomplishment of the department Annual plans	Verify the performance of the Faculty's annual plans	Developing university governance.
Key Performance Indicators KPIs		Key strategic initiatives

7. Rate of achieving the strategic plan indicators in the department.	Follow up on the implementation of the strategic plan
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Perspective 1		Institutional capability	
Strategic goal (4)	Upgrading and developing the capabilities and skills of Human resources in the department.		
Strategic goal Card	SCI 04/ PHYS 04		
Goal description	This goal is concerned with raising academic performance of faculty members and developing administrative staff in the department.		
Strategic Alignment			
Department goals	Faculty goals	University goals	
Upgrading and developing the capabilities and skills of the department's Human resources	Upgrading and developing the capabilities and skills of the Faculty's Human resources	Upgrading and developing human capabilities	
Key Performance Indicators		Key strategic initiatives	
8. Average professional development hours for faculty members		Implementation and holding of courses and workshops according to a prior plan for training needs	
9. Satisfaction rate of faculty members with professional development.		The opinion of the faculty members about the extent of satisfaction with the conducted training programs	
10. Rate of administrative staff training hours.		Administration plan to implement workshops for administrative staff	
11. Rate of employees Satisfaction with professional development.		The opinion of the administrative staff about the extent of satisfaction with the conducted training programs.	

Perspective 2		Internal operations	
Strategic goal (5)	Providing high-impact academic programs in line with up-to-date learning strategies in various fields of physics.		
Strategic goal Card	SCI 05/ PHYS 05		
Goal description	This goal focuses on developing academic programs by improving teaching and learning methods in line with the approved modern methods, and working on developing traditional assessment methods in line with modern skills and acquired competencies.		
Strategic Alignment			
Department goals	Faculty goals	University goals	
Providing high-impact academic programs in line with up-to-date learning strategies in various fields of physics	Providing high-impact academic programs in line with up-to-date learning strategies in various fields of physics.	Improving the academic programs	
Key Performance Indicators		Key strategic initiatives	
12. Rate of students with a GPA 4.5 with respect to the total number of students.		- Development of the program teaching Aids.	
13. Graduation rate within the specified period.			
14. Percentage of students who got 60% in each learning outcome PLO		- Development of the program teaching Aids. - E-Register	
15. Student to faculty members' ratio.		- Controlling the students to faculty ratio to the ideal target ratio for the program.	
16. Dropout rates after the first year.		- Familiarize the new students with the courses at the beginning of the semester. - Comprehensive evaluation of faculty members.	
17. Dropout rates from academic program.		- Develop policies for dealing with low-grade students.	
18. Retention rate of first-year student.		- Attracts first-year students to complete their studies in	

	the program.
19. Employment rate of graduates.	- Providing workshops for graduates. - Direct contact with graduates after graduation. - Develop plans and curricula for the program to upgrade learning outcomes
20. Number of Accredited Academic Programs	- Program development for obtaining program accreditation.
21. Percentage of PhD faculty members.	- Increasing the scholarship.
22. Pass Rates for Exit Exam.	- Providing lectures and workshops to prepare students for Exit Exam.

Perspective 2		Internal operations	
Strategic goal (6)	Enhanced support and developing the scientific research and innovation in the various fields of the physics department.		
Strategic goal Card	SCI 06/ PHYS 06		
Goal description	This goal seeks to further develop scientific research and innovation through research partnerships, dissemination of a culture of innovation, and supporting the creative ideas.		
Strategic Alignment			
Department goals	Faculty goals	University goals	
Increasing support and development of scientific research and innovation in various fields of physics.	Encouraging and establishing partnerships between faculty members and students in innovative and interdisciplinary research.	Increment Support to scientific research and innovation.	
Key Performance Indicators		Key strategic initiatives	
23. Rate of scientific publication.	<ul style="list-style-type: none"> - Evaluates the Research Performance of Faculty members in the department. - Motivates, supports and sponsors faculty members. - Activating research partnerships among faculty members (headquarters & Branches). - Endeavoring to increase the rate of research partnerships with relevant authorities. - Support innovation, patent registration and intellectual property rights. 		
24. Rate of citations per faculty member in refereed journals.			
25. Number of published articles included in ISI.			
26. Number of published articles included in Scopus.			
27. Number of research partnerships.			
28. Number of innovations and entrepreneurship.			

Perspective 3		Resources	
Strategic goal (7)	Fostering and enhancing educational, research, and training collaborative partnerships in the department		
Strategic goal Card	SCI 07/ PHYS 07		
Goal description	This goal focuses on fostering collaborative partnerships with Relevant Authorities by providing educational services and contributing in the employment and training of students.		
Strategic Alignment			
Department goals	Faculty goals	University goals	
Fostering and enhancing educational, research, and training collaborative partnerships in the department	Creating and fostering collaborative partnerships and guidance for students to benefit of training opportunities from relevant authorities	Fostering investment partnerships.	
Key Performance Indicators		Key strategic initiatives	
29. Number of sponsored students from the relevant		- Activating scientific partnerships and providing	



<p>authorities.</p>	<p>scientific advice to the public and private sectors. - Pursue research, training, collaborative partnerships agreements, and sponsorship for students in the department.</p>
<p>30. Number of research programs, partnerships and agreements implemented in the department.</p>	<p>- Striving for research agreements and partnerships.</p>

Perspective 4	Beneficiaries	
Strategic goal (8)	Developing and alignment of learning outcomes and student's skills to suit Employment requirements in the department.	
Strategic goal Card	SCI 08/ PHYS 08	
Goal 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	Faculty goals	University goals
Developing and alignment of learning outcomes and student's skills to suit Employment requirements in the department	improve educational processes and develop students' professional and technical skills to suit the requirements of the labor market.	Improving students' experience
Key Performance Indicators		Key strategic initiatives
31. Student assessment for the learning program quality.		- Increasing student representation on various department committees - Activating the participation of students in the periodic councils of program management.
32. Student satisfaction with learning resources.		- Activation and availability of recent teaching aids. - Providing specialized and modern libraries in various fields of the program.
33. Student satisfaction with the provided educational services		- Improving the quality of self-service provided to students
34. Number of courses and workshops conducted to the students.		- Improving and implementing plan of workshops and courses provided to students.
35. Employer evaluation of graduates.		- Employer questionnaire.
36. Training authorities' evaluation of the department's graduates.		- Training authority questionnaire.

Perspective 4	Beneficiaries	
Strategic goal (9)	Improving and developing the efficiency of the department's graduates.	
Strategic goal Card	SCI 09/ PHYS 09	
Goal description	This goal emphasizes the improvement of the efficiency of the department's graduate by aligning the learning outcomes with the needs of the labor market by developing programs focusing on innovative skills and the requirements of the industrial revolution.	
Strategic Alignment		
Department goals	Faculty goals	University goals
Improving and developing the efficiency of the department's graduates.	Improving and developing the efficiency of the Faculty's graduates.	Improving the efficiency of university outcomes.
Key Performance Indicators		Key strategic initiatives
37. Employer evaluation of department's graduates efficiency		- Employer questionnaire.
38. Number of accredited academic programs		- Seeking accreditation for academic program.
39. Results of Exit and professional exams		- Providing lectures to develop the skills of graduates.
40. Employment rate of graduates.		- Seeking to establish professional summer courses and practical training to improve graduates employability.
41. Enrollment of graduates in postgraduate program.		- Developing the research laboratories infrastructure. - Striving to establish postgraduate programs.

Perspective 4		Beneficiaries	
Strategic goal (10)		Development of the departments role in the provision of outstanding community services and promoting the skills of faculty members.	
Strategic goal Card		SCI 10/ PHYS 10	
Goal description		This goal seeks to provide community services to all types of society's segments.	
Strategic Alignment			
Department goals		Faculty goals	University goals
Development of the departments role in the provision of outstanding community services and promoting the skills of faculty members.		Providing outstanding community services that meet the requirements of community and improve the quality of life	Improving community service and quality of life.
Key Performance Indicators		Key strategic initiatives	
42. The total number of the department's students volunteer hours.		- Activate and motivate students and members to serve the community.	
43. Beneficiaries' satisfaction with community services			
44. Number of community programs and initiatives		- Getting pre university students acquainted with the program.	
45. Number of faculty members conducting training courses outside the faculty.			
46. The number of students who visit the department to acquaint its programs			

Key Performance Indicators

Perspective	Strategic Goal	KPIs
1- Institutional capability	(1) Providing distinguished and high-quality learning and training based on services and facilities.	1. Rate of classrooms Occupation. 2. Ratio of students to number of labs. 3. Percentage of satisfaction of faculty and administrative staff about the department's services and facilities.
	(2) Developing and improving the utilization of the department IT infrastructure	4. Percentage of curricula and programs which have digital version of their content. 5. Conversion rate for electronic transactions. 6. Beneficiaries satisfaction rate about information technology.
	(3) Activate and accomplishment of the department Annual plans	7. Rate of achieving the strategic plan indicators in the department.
	(4) Improving the capabilities and skills of the department Human resources Upgrading and developing the capabilities and skills of Human resources.	8. Average professional development hours for faculty members. 9. Satisfaction rate of faculty members with professional development. 10. Rate of administrative staff training hours. 11. Rate of employees Satisfaction with professional development.
2- Internal operations	(5) Providing high-impact academic programs in line with up-to-date learning strategies in various fields of physics.	12. Rate of students with a GPA 4.5 with respect to the total number of students. 13. Graduation rate within the specified period. 14. Percentage of students who got 60% in each learning outcome PLO. 15. Student to faculty members' ratio. 16. Dropout rates after the first year. 17. Dropout rates from academic program. 18. Retention rate of first-year student. 19. Employment rate of graduates. 20. Number of Accredited Academic Programs. 21. Percentage of PhD faculty members. 22. Pass Rates for Exit Exam.
	(6) Enhanced support and developing the scientific research and innovation in the various fields of the physics department.	23. Rate of scientific publication. 24. Rate of citations per faculty member in refereed journals. 25. Number of published articles included in ISI. 26. Number of published articles included in Scopus. 27. Number of research partnerships. 28. Number of innovations and entrepreneurship.
3- Resources	(7) Fostering and enhancing educational, research, and training collaborative partnerships in the department	29. Number of sponsored students from the relevant authorities. 30. Number of research programs, partnerships and agreements implemented in the department.

4- Beneficiaries	(8) Developing and alignment of learning outcomes and student's skills to suit Employment requirements in the department.	31. Student assessment for the learning program quality. 32. Student satisfaction with learning resources. 33. Student satisfaction with the educational services. 34. Number of courses and workshops conducted to the students. 35. Employer evaluation of graduates. 36. Training authorities' evaluation of the department's graduates.
	(9) Improving and developing the efficiency of the department graduates.	37. Employer evaluation of department's graduates efficiency. 38. Number of accredited academic programs. 39. Results of Exit and professional exams. 40. Employment rate of graduates. 41. Enrollment of graduates in postgraduate program.
	(10) Development of the departments role in the provision of outstanding community services and promoting the skills of faculty members	42. The total number of the department's students volunteer hours. 43. Beneficiaries' satisfaction with community services. 44. Number of community programs and initiatives. 45. Number of faculty members conducting training courses outside the faculty. 46. The number of students who visit the department to acquaint its programs