

Annual Operational Plan for the Bachelor of Science in Physics Program

٢٠٢٥-٢٠٢٦م



The Operational Plan for the Bachelor of Science in Physics Program for the Academic Year (2025-2026)

As a natural extension of the Fifth Executive Plan of the College of Science and Arts, which in turn derives its directives from the Fifth Executive Plan of Najran University, representing the final stage of the University's Second Strategic Plan (2021-2026). These combined plans aim to achieve several objectives, most notably: Academic and research excellence, and enhancing effective community partnership, in line with the targets of the Kingdom of Saudi Arabia's Vision (2030).

The plan also aims to achieve integration between the main elements of the program's internal system: educational, research, and administrative. This integration comes to enhance a culture of quality and change, raise institutional performance efficiency, and closely link the department's objectives with those of the College of Science and Arts and the University as a whole. This contributes to ensuring a sustainable stimulating educational environment and producing high-quality educational and research outputs capable of competing in the job market. The preparation of the plan was based on a set of fundamental references, namely:

- **The Fifth Executive Plan of Najran University (2025-2026)**
- **The Fifth Executive Plan of the College of Science and Arts (2025-2026)**
- **The Second Strategic Plan of Najran University (2021-2026)**
- **The Guide for Preparing Executive and Operational Plans issued by the University Agency for Development and Quality.**
- **The Operational Plan Report for the Bachelor of Science in Physics Program for the Year 1446 AH**
- **The Performance Indicators Report for the Bachelor of Science in Physics Program for the Year 1446 AH**
- **The Annual Report of the Bachelor of Science in Physics Program for the Year 1446 AH**
- **The Improvement Plan for the Bachelor of Science in Physics Program for the Year 1446 AH**

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- **The Follow-up Report on Implementing the Program Shares for the Bachelor of Science in Physics Program for the Year 1446 AH**

The methodology for formulating the plan relied on a participatory approach, involving several consecutive stages: starting with the preparation and analysis phase, then the phase of formulating strategic objectives, and ending with preparing the final plan in the form of a detailed matrix. This matrix includes the strategic axes and planned initiatives, key performance indicators to measure progress, mechanisms for periodic follow-up, and continuous reporting systems. This plan is considered an effective organizational working document, aiming to elevate the quality of education, scientific research, and community service, and the optimal use of human and developmental resources. It also seeks, within a sustainable academic environment, to achieve growth and change locally and regionally, in line with the aspirations of the College of Science and Arts and Najran University.

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The Strategic Direction of the College of Science and Arts:

Mission:

To provide high-quality educational outputs, produce distinguished scientific research, and build partnerships that serve the community and meet its needs by providing an environment that keeps pace with modern technologies, supports governance, and develops human resources.

Objectives:

1. Develop the organizational and financial environment to provide stimulating and supportive learning resources for developing students' skills.
2. Professional development of human resources to support the educational and research process and enhance opportunities for continuous education.
3. Provide high-quality academic programs that meet development requirements and labor market needs.
4. Develop research output to support innovation and the knowledge economy.
5. Enhance social responsibility and build effective community partnerships with institutions and entities.

Values:

Responsibility: Positive interaction towards the college and community stemming from a sense of patriotism.

Trustworthiness: Performing tasks faithfully and fulfilling rights and duties.

Transparency: Clarity in all activities, decisions, and transactions.

Excellence: Performing work in a distinguished and innovative manner.

Creativity: Introducing novelty, especially in ideas, and utilizing what has been created in the form of a product.

Empowerment: Providing participation opportunities for all college affiliates, males and females, in decision-making.

Belonging: Loyalty to the nation and enhancing its principles and values in the college's programs and activities.

Integrity: Commitment to ethical and professional principles based on Islamic Sharia.

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The Strategic Direction of the Physics Department:

Mission:

To provide a suitable environment for preparing scientifically and research-qualified human cadres that meet labor market requirements and contribute to serving the community and building and developing the knowledge economy.

Objectives:

1. Develop the infrastructure that ensures the development and enhancement of the capacities and skills of male and female students.
2. Continuous professional development of the academic, technical, and administrative cadres in the Physics Department to advance the educational and research process.
3. Provide academic programs to prepare scientifically and research-qualified human cadres that meet labor market requirements in accordance with Vision 2030.
4. Develop and enhance the scientific research environment in the Physics Department and direct it towards the knowledge economy.
5. Activate the role of faculty members in community service through providing awareness lectures and seminars, consulting services, and establishing partnerships with relevant institutions and entities.

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The Strategic Direction of the Bachelor of Science in Physics Program:

Mission:

To prepare graduates qualified with experiential and academic skills in physics that meet community requirements.

Objectives:

1. Introduce the student to the main branches of physics.
2. Help the student understand the principles of physics.
3. Provide the student with a solid foundation for a successful career possessing the necessary skills to continue their higher education.
4. Provide the student with the opportunity to study some advanced concepts and techniques in physics.
5. Enable the student to develop problem-solving, critical and quantitative analysis, and laboratory skills in physics.
6. Enable the student to develop personal organization and teamwork skills.

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Matrix of Correlation between Department/College Mission:

Mission of the College of Science and Arts	Building partnerships that serve the community and meet its needs by providing an environment that keeps pace with modern technologies, supports governance, and develops human resources	Producing distinguished scientific research	Providing high-quality educational outputs
Mission of the Physics Department			
To provide a suitable environment for preparing scientifically and research-qualified human cadres	✓		
Developing the knowledge economy		✓	
Meeting labor market requirements and contributing to community service			✓

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Matrix of Correlation between Department/College Objectives:

#	Strategic objectives of the College	Develop the organizational and financial environment to provide stimulating and supportive learning resources for developing students' skills.	Professional development of human resources to support the educational and research process and enhance opportunities for continuous education.	Provide high-quality academic programs that meet development requirements and labor market needs.	Develop research output to support innovation and the knowledge economy.	Enhance social responsibility and build effective community partnerships with institutions and entities.
1	Develop the infrastructure that ensures the development and enhancement of the capacities and skills of male and female students.	✓	✓			
2	Continuous professional development of the academic, technical, and administrative cadres in the Physics Department to advance the educational and research process.		✓		✓	✓
3	Provide academic programs to prepare scientifically and research-qualified human cadres that meet labor market requirements in accordance with Vision 2030.			✓	✓	

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#	Strategic objectives of the College	Develop the organizational and financial environment to provide stimulating and supportive learning resources for developing students' skills.	Professional development of human resources to support the educational and research process and enhance opportunities for continuous education.	Provide high-quality academic programs that meet development requirements and labor market needs.	Develop research output to support innovation and the knowledge economy.	Enhance social responsibility and build effective community partnerships with institutions and entities.
4	Develop and enhance the scientific research environment in the Physics Department and direct it towards the knowledge economy.				✓	✓
5	Activating the role of faculty members in serving the community by providing lectures, awareness seminars, and consulting services, and contributing to establishing partnerships with relevant institutions and organizations.	✓	✓	✓		

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Matrix of Correlation between Program/Department Mission:

		Mission of the Physics Department	Providing a suitable environment for preparing qualified human resources, both scientifically and in research.	Developing the knowledge economy	Meeting labor market requirements and contributing to community service
		Mission of the Program	✓	✓	✓
1	Prepare graduates qualified with experimental and academic skills in physics	✓			
	That meet community requirements.			✓	✓

Matrix of Correlation between Program/Department Objectives:

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Program Objectives	Department Objectives	Developing the infrastructure that ensures the growth and development of students' capabilities and skills.	Continuous professional development for academic, technical, and administrative staff in the Physics Department, aimed at improving the educational and research process.	Provide academic programs to prepare scientifically and research-qualified human cadres that meet labor market requirements in accordance with Vision 2030.	Develop and enhance the scientific research environment in the Physics Department and direct it towards the knowledge economy.	Activating the role of faculty members in serving the community by providing lectures, awareness seminars, consulting services, and establishing partnerships with relevant institutions and organizations.
1. Introduce the student to the main branches of physics.	✓					
2. Help the student understand the principles of physics.	✓					
3. Provide the student with a solid foundation for a successful career possessing the necessary skills to continue their higher education.					✓	
4. Provide the student with the opportunity to study some advanced concepts and techniques in physics.		✓				
5. Enable the student to develop problem-solving, critical and quantitative analysis, and laboratory skills in physics.				✓		
6. Enable the student to develop personal organization and teamwork skills.						✓

Details of the operational plan

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First strategic Axis: A sustainable institutional environment

AXIS	University strategic goal	College strategic goal	Departmental Strategic Goal	Program Strategic Goal	The operational objective of the program	Program Implementation Initiatives	Development projects	Responsible for Execution	Follow-up Responsible	Start Date	End Date	Support	Performance Indicators
Institutional Sustainability	1.1 Developing a supportive organizational environment and corporate governance framework for excellence and the development of the university's internal resources.	1.1.1 Developing the organizational and digital environment to provide stimulating and supportive learning resources for the development of faculty and student skills.	1.1.1.1 Developing the infrastructure that ensures the growth and development of students' abilities and skills	1. Introducing the student to the most important branches of physics	1. Continuous improvement and development of the program's organizational structures.	1. Restructuring the Department's Development and Quality Committee	1. Restructuring the Development and Quality Committee based on the updated quality system at Najran University	Development and Quality Committee	Head of Department	Beginning of the first semester of 1447 AH	End of the first semester 1447 AH	Deanship of Development and Quality	Approval of the new structure for the Development and Quality Committee
				2. Helping the student understand the principles of physics	2. Ensuring that all basic physics laboratories are equipped with modern and efficient equipment and achieving a high level of operational readiness for all basic student experiments.	2. Physics Laboratories Development and Equipping Project	2. Evaluate and update the readiness of experiments in the department's laboratories.	Agency for Educational Affairs		Laboratory readiness report for the Physics program			
				3. Creating and operating a central digital repository for physics learning resources (including laboratory manuals, simulation programs, and past projects) to ensure access for students and faculty.	3. Central Digital Repository for Physics Learning Resources	3. Creating a digital database of laboratory experiments in the physics department.	5. Creating a digital database of graduation projects for physics department students.	Deanship of Digital Transformation and Knowledge Resources		Uploading data for 50% of the experiments			
	1.2 Developing the capabilities	1.2.1 Professional development for human resources to support the educational and research process and	1.2.1.1 Continuous professional development of academic,	1. Providing students with the opportunity	4. Developing the skills of academic, technical, and administrative staff in the Physics	Continuing to raise awareness among all department staff about the latest developments in the field of	Continuing to raise awareness among all department staff about the latest	Development and Quality Committee		Beginning of the first semester	End of the first semester	Deanship of Development and Quality	Percentage of faculty members in the program who have

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	of all human resources at the university	enhance opportunities for continuing education.	technical, and administrative staff in the Physics Department to improve the educational and research process.	y to study some advanced concepts and techniques in physics.	Department and enhancing opportunities for continuous development	development and quality.	developments in the field of development and quality.		Head of Department	of 1447 AH	1447 AH		completed courses in development and quality.
1.3 Enhancing the University's Position in Global Rankings	1.3.1 Developing the organizational and physical environment to provide stimulating and supportive learning resources for developing students' skills.	1.3.1.1 Developing the infrastructure that ensures the growth and development of students' abilities and skills.	1. To introduce the student to the main branches of physics.	5. Enhancing the digital environment to provide stimulating and supportive learning resources for developing the skills of faculty members and students.	Physics Department website updated	Follow the department's website updates on the university page.	Department Site Monitoring Committee	Head of Department	Beginning of the first semester of 1447 AH	End of the first semester 1447 AH	Deanship of Digital Transformation and Knowledge Resources	The department's website is updated on the university's page.	
			2. To help the student understand the principles of physics.		Developing digital learning resources and linking them to the curriculum.	Training faculty and students on virtual lab programs Activating classroom activities via Blackboard (forums, quizzes, interactive lectures).	Plans and Curricula Committee	Head of Department	Beginning of the first semester of 1447 AH	End of the first semester 1447 AH	Deanship of Digital Transformation and Knowledge Resources	-Number of training courses on virtual lab programs. - Report on the effectiveness of classroom activities via Blackboard	
				Preparing schedules for the educational process	Preparing teaching schedules for faculty members Preparing class schedules for students	Schedules and Exams Committee	Head of Department	Beginning of the first semester of 1447 AH	End of the first semester 1447 AH	Deanship of Admissions and Registration	-Faculty teaching schedules for both semesters - Student teaching schedules for		

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							Preparing exam schedules for students						both semesters
													- Student exam schedules for both semesters

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Second strategic Axis: Distinctive teaching and learning

AXIS	University strategic goal	College strategic goal	Departmental Strategic Goal	Program Strategic Goal	The operational objective of the program	Program Implementation Initiatives	Development projects	Responsible for Execution	Follow-up Responsible	Start Date	End Date	Support	Performance Indicators
Distinctive teaching and learning	2.1 Providing high-quality educational outcomes that meet national developments and labor market needs	2.1.1 Providing high-quality academic programs that meet development requirements and labor market needs.	2.1.1.1 Providing academic programs to prepare scientifically and research-qualified human resources that meet the requirements of the labor market in accordance with Vision 2030.	5. Enabling the student to develop problem-solving, critical and quantitative analysis, and laboratory skills in physics.	1. Improving the quality of the educational process	Student Educational Skills Development Program Visiting research centers Enhancing extracurricular activities in the program Organization of cultural programs, scientific competitions, and sports activities. Preparation of quarterly reports on extracurricular activities within the program.	Creativity Pathways Program: Hosted Event Field visit to the Center for Advanced Materials and Nanotechnology Research An approved student activity plan for both semesters. Orientation Program for New Students	Student Activities Committee Head of Department	Beginning of the first semester of 1447 AH Head of Department	Beginning of the first semester of 1447 AH Beginning of the first semester of 1447 AH	End of the first semester 1447 AH End of the first semester 1447 AH	Deanship of Student Affairs Student Guidance Unit, Faculty of Science and Arts -	- Student evaluation of the quality of the learning experience in the program (KPI-P-01) - 90% of orientation programs completed

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				Providing academic advising services while motivating students and fostering a spirit of competition among them to improve the educational process.	- Assigning students to academic advisors - - Providing academic advising services for course add/drop processes - Identifying struggling students and providing them with support (improvement plans) - Recognizing and honoring high-achieving students Measuring student satisfaction with the effectiveness of the academic advising system in the program	Departmental Academic Advising Committee	Head of Department	Start of the academic year The add/drop period is according to the university calendar at the beginning of each semester.	- Departmental Academic Advising Committee	Departmental Academic Advising Committee	- Percentage of participants in the student survey regarding academic advising services. - Annual report of the Academic Advising Committee.
								Beginning of the first semester of 1447 AH	End of the first semester 1447 AH	Departmental Academic Advising Committee	Student Guidance Unit, Faculty of Science and Arts
										Departmental Academic Advising Committee	

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					2. Completion of the academic accreditation requirements for the Bachelor of Science in Physics program	Preparing for the Training and Education Authority's verification visit	Preparing the program's faculty members for the verification visit by the Evaluation and Training Authority	Department and Quality Committee	Head of the Development and Quality Committee	Beginning of the first semester of 1447 AH	End of the first semester 1447 AH	Deanship of Development and Quality	Preparatory meetings for the visit and the percentage of faculty members in attendance from the program
					3. Enhancing the quality of facilities and equipment and updating learning resources in the Bachelor of Science in Physics program.	Updating learning resources and facilities	<ul style="list-style-type: none"> -Equipping laboratories with the necessary modern equipment and tools. -Compiling a list of references and books mentioned in the physics program course descriptions. -Updating digital and print learning resources 	Plans and Curricula Committee	Head of Department	Beginning of the first semester of 1447 AH	End of the first semester 1447 AH	Educational Affairs Agency	<ul style="list-style-type: none"> - Report on identifying and submitting the requirements for upgrading the department's laboratories. - (KPI-P-01) - Report on identifying and submitting the references and books used in the physics program course descriptions. - Report on reviewing the learning resources used in the physics program course descriptions.
					4. Strengthening the program's internal quality assurance system.	Achieving Program Objectives	Developing a mechanism to verify the achievement of the program's objectives.	First Standards Committee	Head of the Development and Quality Committee	Beginning of the first semester of 1447 AH	End of the first semester 1447 AH	Deanship of Development and Quality	- Adoption of an updated mechanism in the department council

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												year 2025/2026	
												- Approval of the program report by the department council	
	2.2 Improving the educational environment to foster excellence and belonging	2.2.1 Professional development of human resources to support the educational and research process and enhance opportunities for continuing education.	2.2.1.1 Continuous professional development of academic, technical and administrative staff in the Physics Department in order to improve the educational and research process.	6. Providing students with the opportunity to study some advanced concepts and techniques in physics.	5. Developing high-quality academic programs to meet labor market demands.	Developing high-quality academic programs to meet labor market demands for interdisciplinary program proposals.	Plans and Curricula Committee	Head of Department	Beginning of the first semester of 1447 AH	End of the first semester 1447 AH	College Agency for Academic Affairs and Deanship of Development and Quality	- A report on labor market needs for proposed interdisciplinary programs.	
					6. Strengthening communication channels between the program and graduates.	Developing the skills of graduates and those expected to graduate	Holding training courses to develop the skills of expected graduates.	Cooperative Training and Graduates Committee	Head of Department	Beginning of the first semester of 1447 AH	End of the first semester 1447 AH	College Agency for Academic Affairs, and College Alumni Unit	- Preparation of a program description for a Bachelor of Science in Materials Physics.
					Updating the graduate database	-Employer assessment of graduate competency -Assessment of graduate and expected graduate satisfaction with the program Employment database for program graduates -Preparation of the Cooperative Training and Graduates Committee report for the year 1447 AH	Cooperative Training and Graduates Committee	Head of Department	Beginning of the first semester of 1447 AH	End of the first semester 1447 AH	College Agency for Academic Affairs, and College Alumni Unit	- The number of training courses annually must be at least 3.	
												- Employer assessment of the program graduates' competency (KPI-P-09). - Graduate and expected graduate satisfaction report. - Graduate employment (KPI-P-07). - Approval of the Cooperative Training and Graduates Committee	

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													report for the year 1447 AH by the department council.
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Third strategic axis: Competitive scientific research

AXIS	University strategic goal	College strategic goal	Departmental Strategic Goal	Program Strategic Goal	The operational objective of the program	Program Implementation Initiatives	Development projects	Responsible for Execution	Follow-up Responsible	Start Date	End Date	Support	Performance Indicators
3. Competitive scientific research	3.1 Improving the efficiency of research production, knowledge investment, and supporting innovation	3.1.1 Developing research output to support innovation and the knowledge economy.	3.1.1.1 Developing, enhancing, and guiding the scientific research environment in the Physics Department towards a knowledge-based economy.	3. To provide the student with a strong foundation for a successful career, possessing the necessary skills to pursue higher education.	1. Contributing to the implementation of annual research seminars in physics.	Encouraging faculty members to present research seminars in physics	Faculty members present research seminars in physics	Scientific Research and Continuing Education Committee	Head of Department	Beginning of the first semester of the academic year 1447 AH	Beginning of the first semester of the academic year 1447 AH	Deanship of Scientific Research	- Conduct at least two research seminars
	3.1 Development of the Graduate Studies System				2. Creating a stimulating research environment within the department that supports faculty members and students in producing scientific work.	Encouraging faculty members to submit research proposals to supporting parties.	Faculty members submit research proposals to funding parties						- Submit 4 research proposals to funding parties

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							graduation project course						project discussion committees
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Fourth strategic axis: Effective community partnerships

AXIS	University strategic goal	College strategic goal	Departmental Strategic Goal	Program Strategic Goal	The operational objective of the program	Program Implementation Initiatives	Development projects	Responsible for Execution	Follow-up Responsible	Start Date	End Date	Support	Performance Indicators
4. Effective community partnerships	4.1 Promoting Social Responsibility Among All University Members	4.1.1 Promoting social responsibility and building effective community partnerships with institutions and organizations.	4.1.1.1 Activating the role of faculty members in serving the community by providing lectures, awareness seminars, and advisory services, and contributing to establishing partnerships with relevant institutions and parties.	6. Enabling the student to develop personal organization and teamwork skills	1. Developing and implementing awareness programs	Providing awareness lectures, seminars and workshops	1. Conducting scientific and awareness-raising lectures and workshops	Community Service Committee	Community Service Committee	Beginning of the first semester 1447 AH	Beginning of the first semester 1447 AH	University Agency for Educational Affairs	- Beneficiary satisfaction with community services KPI-1-22)) - Percentage of faculty/administrators/students participating in volunteer activities for community service NU-4-1-1))
	4.1 Expanding Community Contributions and Partnerships			2. Providing community-oriented courses	Preparing and implementing the community engagement plan for the	2. Participating in the implementation of national events and occasions within the university.							- Community Programs and Initiatives Rate (KPI-1-23))

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						Physics Department	3. Implementing voluntary activities and initiatives. 4. Implementing the community engagement plan in the department						
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The team that prepared the operational plan for the Bachelor of Science in Physics program - 1447 AH:

Preparation team

Dr. Hassan Balghith Al-Bargi	Head of Physics Department - Scientific Research and Continuing Education Committee
Prof. Dr. Saleh Ahmed Saleh	Development and Quality Committee
Prof. Dr. Hussein Yousef Ammar	Timetables and Examinations Committee
Prof. Dr. Ayman Mohamed Abdel-Moati	Community Service Committee
Dr. Hatem Omar Al Nadary	Development and Quality Committee
Dr. Essam Mohamed Nasr El-Din	Academic Advising Committee
Dr. Mohamed Issa Abkar Adam	Plans and Curricula Committee
Dr. Aref Mohamed Al-Sayyadi	Cooperative Training and Alumni Committee
Dr. Tayseer Ibrahim Al-Naggar	Student Activities Committee

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Accreditation

Session	Ninth session of the Physics Department Council - First Semester 1447 AH
Session Number	00008-1520-14470616
Session Date	15-12-2025