



Program Specification

Program Name:	Physics
Qualification Level :	Bachelor of Physics (B.Sc.)
Department:	Physics
College:	Science
Institution:	Majmaah University

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A. Program Identification and General Information

1. Program Main Location:

Majmaah University Al-Zulfi Campus



2. Branches Offering the Program:

Al Zulfi Campus

3. Reasons for Establishing the Program:

(Economic, social, cultural, and technological reasons, and national needs and development, etc.)

The urgent need of the market to employ Saudi graduates of physics: in the public and private Ministry of education, Ministry of Higher Educational, Ministry of Industrial, Ministry of petroleum, Electric power stations, water stations, king Abdul-Aziz city for science and technology, difference industry, Laboratory safety, and Ministry of Army.

4. Total Credit Hours for Completing the Program: (138)

Side	Credit Hours			Percentage (%)
	Compulsory	Elective	free	
University		12		8.69
College	18	2		14.49
Department	94	9		74.65
Others			3	2.17
Total	112	23	3	100.00

5. Professional Occupations/Jobs:

- 1- Continue higher education in physics leading to M.Sc. or PhD.
- 2- Work in research centers and universities.
- 3- Work in public and private sectors of education.
- 4- Work in medical laboratories, running machines, recycling its wastes.
- 5- Work in industrial sectors.
- 6- Work in Electric power stations.
- 7- Work at water stations and petroleum ministry, and geology.
- 8- Work as a research assistant in king Abdul-Aziz city for science and technology.
- 9- Work in specialized research centers, quality control labs. and standards and measurements bureau.
- 10- Work in difference industry/Army.

6. Major Tracks/Pathways (if any):

Major track/pathway	Credit hours (For each track)	Professional Occupations/Jobs (For each track)
1. NA		
2.		
3.		
4.		

7. Intermediate Exit Points/Awarded Degree (if any):

Intermediate exit points/awarded degree	Credit hours
5. NA	
1.	
2.	

B. Mission, Goals, and Learning Outcomes

1. Program Mission:

The physics program prepares qualified national graduates, who are capable of: competing the labor market needs, meeting the requirements of sustainable development, and contributing to research and community service.

2. Program Goals:

The goal of the Physics major:

- 1- Provide the students with a broad fundamental of the physical principles of the universe, to help them develop critical thinking and quantitative reasoning skills.
- 2- Empower the students to think creatively and critically about scientific problems and experiments.

3. Relationship between Program Mission and Goals and the Mission and Goals of the Institution/College.

- a) The mission of the **Institution/College**.

<div style="text-align: center;"> <i>University mission Keywords</i> <i>College mission Keywords</i> </div>		University Mission The mission of Majmaah University is to offer educational programs with high quality as well as funding all types of research projects and social initiatives that contribute in achieving the sustainable development. We also committed to instill the concept of patriotism and educate students about the culture and heritage of the country.				
		Education high quality	High Research project services	Contribute in achieving sustainable development	Concept of patriotism	Heritage of the country
College Mission The College provides educational services to its community according to national and international standards of quality, and to develop highly scientific and academic qualified graduates and	Educational services	√		√	√	√
	Develop high scientific		√	√		
	Academic qualified	√	√	√		√
	National development	√	√		√	
	Competitors in the labor market				√	√

b) The mission of the **College/ Program**.

College Mission Keywords Program Mission Keywords		College Mission The College provides educational services to its community according to national and international standards of quality, and to develop highly scientific and academic qualified graduates and successful competitors in the labor market to contribute to the national development				
		Educationa l services	Develop high scientific	Academi c qualified	National developmen t	Competitor s in the labor market
Program Mission The Physics program prepares qualified national graduates, who are capable of: competing the labor market needs, meeting the requirements of sustainable development, and contributing to research and community service.	Qualified graduates	√	√	√	√	
	Competitors in the labor market			√	√	√
	Requirements of sustainable			√	√	
	Development Research		√	√	√	√
	Developed community service	√	√		√	√

c) The mission of the **program/ Goals**.

Program Mission The Physics program prepares qualified national graduates, who are capable of: competing the labor market needs, meeting the requirements of sustainable development, and contributing to research and community service						
Program Mission Program Objectives		Qualified graduates	Competitors in the labor market	Requirements of sustainable	Development Research	Developed community service
P r o	Physics graduates should have:					

1. Enhance the fundamental knowledge in Physics	√	√			
2. Develop and utilize effective skills in Physics	√		√	√	√
3. Provide foundation for basic scientific research in Physics.	√	√		√	
4. Cooperate as individuals or in groups with the society to solve Physics related problems.	√	√	√	√	√

4. Graduate Attributes:

- 1- Students will be able to recognize and explain the importance of physics to objects and phenomena in the world round us; they will be able to use this knowledge to make physics interesting and relevant to high school physics students.
- 2- Students will be able to write down equations and draw diagrams and graphs to represent physical problems or situations, they will be able to solve these equations to make predictions about the physical situation.
- 3- Students will recognize, that physics is an experimental science, they will be able to plan and carry out experiments, they will be able to present their results to these experiments with a numerical uncertainty.
- 4- Students will have an in depth understanding of the fields of mechanics, electromagnetism, thermal physics and modern physics. They will be able to use this understanding to solve problems and also to clearly explain concepts to high school level students.
- 5- Students will recognize the universality and applicability of the laws of physics, such as conservation laws, and will be able to use these laws to approach novel situations and solve problems

5. Program learning Outcomes*

Knowledge and Understanding	
K1	Recognize the knowledge of fundamental concepts in classical physics (mechanics, electrodynamics, thermodynamics, vibrations, waves and optics) and modern physics (quantum, atomic and molecular, nuclear, elementary particle and solid state physics)
K2	Recall the appropriate mathematical tools used in physics
K3	Understand the importance of physics laws and its limitations, their inherent relation and mathematical formulation
K4	
K...	
Skills	
S1	Perform experiments, data acquisition, data analysis and draw results and conclusions
S2	Develop the skill for analyzing/solving the physics-based problems in the fields of mechanics, electromagnetism, solid state and nuclear physics.
S3	Explain to a general audience the physical principles of mechanics, electromagnetism, solid state and nuclear physics that underlie our understanding of nature
S4	
S...	
Values	
V1	Work effectively in groups as well as individually
V2	Be aware of professional and ethical responsibilities
V3	Think creatively about scientific problems and their solutions, both orally and in written
V4	Locate and retrieve scientific information, using modern computer tools
V5	Learn how to collect and classify the required topics using internet communication tools.

* Add a table for each track and exit Point (if any)

C. Curriculum

1. Curriculum Structure

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Institution Requirements	Required	--	--	--
	Elective	6	12	8.70%
College Requirements	Required	6	18	13.04%
	Elective	1	2	1.45%
Program Requirements	Required	32	89	64.49%
	Elective	3	9	6.52%
Capstone Course/Project	Required	2	5	3.62%
Field Experience/ Internship		--	--	--
Others	Free Course	1	3	2.17%
Total		51	138	100%

* Add a table for each track (if any)

2. Program Study Plan

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 1	CSI 101	Introduction to Computer Science	Required	--	3	College
	MATH 131	Basis of Mathematics	Required	--	3	College
	PHYS 101	General Physics I	Required	--	3	College
	PHYS 1012	General Physics I Lab.	Required	---	1	Department
	SENG 101	Scientific English	Required	---	3	College
	---	University Elective	Elective	---	2	University
	---	College Elective	Elective	---	2	College
					17	
Level 2	BIOL 101	General Biology	Required	---	3	College
	PHYS 1022	General Physics II	Required	PHYS 1012	4	Department
	PHYS 1912	Practical Training	Required	PHYS 1012	2	Department
	MTHZ 102	Calculus	Required	MATH 131	3	Department
	CHEM 101	General Chemistry	Required	---	3	College
	---	University Elective	Elective	---	2	University
					17	
Level 3	PHYS 2112	Classical Mechanics I	Required	PHYS 1022 MTHZ 102	3	Department
	PHYS 2022	Differential Equations in Physics	Required	MTHZ 102	3	Department
	PHYS 2032	General Physics III	Required	PHYS1022	4	Department

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
	PHYS 2412	Thermodynamics	Required	PHYS102 2	3	Department
	PHYS 2042	Mathematical Physics I	Required	MTHZ 102	3	Department
	---	University Elective	Elective	---	2	University
					18	
Level 4	PHYS 2052	Mathematical Physics II	Required	PHYS204 2	3	Department
	PHYS 2312	Waves and Vibrations	Required	PHYS204 2	3	Department
	PHYS 2212	Electromagnetism I	Required	PHYS203 2	3	Department
	PHYS 2122	Classical Mechanics II	Required	PHYS211 2	3	Department
	PHYS 2512	Modern Physics	Required	PHYS203 2	3	Department
	PHYS 2062	Partial Differential Equations in Physics	Required	PHYS202 2	3	Department
				18		
Level 5	PHYS 3922	Electromagnetism Lab.	Required	PHYS221 2	2	Department
	PHYS 3422	Statistical Physics	Required	PHYS241 2	3	Department
	PHYS 3322	Optics	Required	PHYS231 2	3	Department
	PHYS 3522	Quantum Mechanics I	Required	PHYS 2512 PHYS206 2	3	Department
	PHYS 3072	Mathematical Physics III	Required	PHYS205 2	3	Department
	PHYS 3932	Modern Physics Lab.	Required	PHYS251 2	2	Department
	---	University Elective	Elective	---	2	University
				18		
Level 6	PHYS 3222	Electromagnetism II	Required	PHYS221 2	3	Department
	PHYS 3952	Instrumentation	Required	PHYS251 2	3	Department
	PHYS 3942	Optics Lab.	Required	PHYS332 2	2	Department
	PHYS 3812	Nuclear Physics I	Required	PHYS251 2	3	Department
	PHYS 3712	Solid State Physics I	Required	PHYS352 2	3	Department
	---	Department Elective	Elective	---	3	Department
				17		
Level 7	PHYS 4232	Electronics I	Required	PHYS371 2	3	Department
	PHYS 4542	Atomic and Molecular Physics	Required	PHYS352 2	3	Department
	PHYS 4982	Project I	Required	PHYS352 2	2	Department
	PHYS 4532	Quantum Mechanics II	Required	PHYS352 2	3	Department
	PHYS 4972	Solid State Lab.	Required	PHYS371 2	2	Department
	PHYS 4962	Nuclear Physics Lab.	Required	PHYS281 2	2	Department
	---	University Elective	Elective	---	2	University

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 8	PHYS 4242	Electronics II	Required	PHYS423 2	3	Department
	PHYS49 92	Project II	Required	PHYS498 2	2	Department
	--	University Elective	Elective	---	2	University
	---	Department Elective	Elective	---	3	Department
	---	Department Elective	Elective	---	3	Department
	---	Free Elective	Free	---	3	Free

* Include additional levels if needed

** Add a table for each track (if any)

3. Course Specifications

Insert hyperlink for all course specifications using NCAAA template

https://majmaah-my.sharepoint.com/:f/g/person/h_hanafy_mu_edu_sa/EiMOdfW9qcFOm5K6bFIX7jYBw4RcHW9nDluI4nGhL21Yyg?e=2dxxvr

4. Program learning Outcomes Mapping Matrix

Align the program learning outcomes with program courses, according to the following desired levels of performance (I = Introduced P = Practiced M = Mastered)

Level	Course	Course Title	Program Learning Outcomes (I = Introduced P = Practiced M = Mastered)											
			Knowledge			Skills			Competence					
			K.1	K.2	K.3	S.1	S.2	S.3	C.1	C.2	C.3	C.4	C.5	
Level 1	CSI 101	Introduction to Computer Science	I			I			I					I
	MATH 131	Basis of Mathematics		I			I			I	I			
	PHYS 101	General Physics I	I				I		I			I		
	PHYS 1012	General Physics I Lab.	I			I				I		I		
	SENG 101	Scientific English	I						I		I	I		
	---	University Elective	I						I	I				
	---	College Elective	I						I	I		I		
Level 2	BIOL 101	General Biology	I						I	I	I			
	PHYS 1022	General Physics II			I	I	I		I					I
	PHYS 1912	Practical Training		I		I		I						I
	MTHZ 102	Calculus			I		I		I		I			
	CHEM 101	General Chemistry	I				I		I			I		
	---	University Elective		I				I			I	I		
Level 3	PHYS 2112	Classical Mechanics I	I				I		I		I			

	PHYS 2022	Differential Equations in Physics		I			I		I		I	
	PHYS 2032	General Physics III	I				I		I		I	
	PHYS 2412	Thermodynamics	I	I			I		I		I	I
	PHYS 2042	Mathematical Physics I	I		I		I			I		I
	---	University Elective	I			I			I			I
Level 4	PHYS 2052	Mathematical Physics II	P				P		P		P	
	PHYS 2312	Waves and Vibrations	I	I			P		P		P	
	PHYS 2212	Electromagnetism I	P				P		P		P	P
	PHYS 2122	Classical Mechanics II	P				P		P		P	
	PHYS 2512	Modern Physics	P	P			P		P		P	
	PHYS 2062	Partial Differential Equations in Physics			P		P		P		P	P
Level 5	PHYS 3922	Electromagnetism Lab.	P			P			P		P	
	PHYS 3422	Statistical Physics	I				P		P		P	
	PHYS 3322	Optics		P			P		P		P	P
	PHYS 3522	Quantum Mechanics I		P			P		P		P	
	PHYS 3072	Mathematical Physics III			P		P		P		P	
	PHYS 3932	Modern Physics Lab.	P			P			P		P	
	---	University Elective	P						P		P	
Level 6	PHYS 3222	Electromagnetism II			M		M			P		M
	PHYS 3952	Instrumentation				P		P		P		P
	PHYS 3942	Optics Lab.	M			M			M			M
	PHYS 3812	Nuclear Physics I			P		P			P		P
	PHYS 3712	Solid State Physics I	P	P			P		P		P	
	---	Department Elective			P		P		P			P
Level 7	PHYS 4232	Electronics I	P			P			P		P	
	PHYS 4542	Atomic and Molecular Physics			M		M		M		M	
	PHYS 4982	Project I				P	P	P	P	P	P	P
	PHYS 4532	Quantum Mechanics II	M				M		M		M	M
	PHYS 4972	Solid State Lab.	M			M			M		M	

	PHYS 4962	Nuclear Physics Lab.	M			M			M			M	
	---	University Elective		M					M				M
Level 8	PHYS 4242	Electronics II		M		M			M			M	
	PHYS4992	Project II				M	M	M	M	M	M	M	M
	--	University Elective						M			M	M	M
	---	Department Elective			M		M		M				M
	---	Department Elective		M			M	M					M
	---	Free Elective						M	M		M		M

Course code & No.	Program Learning Outcomes										
	Knowledge and understanding				Skills				Values		
	K1	K2	K3	---	S1	S2	S3	---	V1	V2	----
Course											
Course											
Course											
Course											
Course											
Course											
Course											
Course											
Course											
Course											
Course											
Course											
Course											

* Add a table for each track (if any)

5. Teaching and learning strategies to achieve program learning outcomes

Describe policies, teaching and learning strategies, learning experience, and learning activities, including curricular and extra-curricular activities, to achieve the program learning outcomes.

Measurable Objectives	Measurable Performance Indicators	Major Strategies
1. Enhance the fundamental knowledge in Physics	1 – Exam results 2 - Reports 3 – Assignments 4 – Surveys	1 - Lectures 2 - Presentations 3 – Group work 4 – Discussions
2. Develop and utilize effective skills in Physics	1 – Following laboratory safety procedures in Labs. 2 - Development and implementation of logical experimental procedures	1 – Laboratory practices 2 - Lectures 3 – Solving Problems 4 – Assignments

	3 - The analysis and interpretations of data using appropriate theory 4 - Demonstrating effective problem solving techniques 5 - Mathematical Procedures	
3. Provide foundation for basic scientific research in Physics.	1 - The ability to use software tools to collect required topics 2 - Presentations 3 - Ability to write reports 4 - Literature Surveys	1 - Practical work 2 - Assignments 3 - Training
4. Cooperate as individuals or in groups with the society to solve Physics related problems.	1 - Contributing ideas 2 - Students cooperation with their class fellows, teachers and administrative staff. 3 - Correlate physics laws and principles with natural phenomena	1 - Seminars 2 - Individual task 3 - Group task 4 - Scientific visits

6. Assessment Methods for program learning outcomes.

Describe assessment methods (Direct and Indirect) that can be used to measure achievement of program learning outcomes in every domain of learning.

	Assessment task	Week Due	Proportion of Total Assessment
	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	First exam*	6-7	10%
2	Second exam*	11-12	10%
3	E-exam	13	10%
4	Presentation	One/ semester	5%
5	Homework	Every week	10%
6	Quizzes	End topics	10%
7	Discussions	Every week	5%
8	Final exam*	At the end	40%

D. Student Admission and Support:

1. Student Admission Requirements

- ✓ The Executive Principles of Majmaah University
- ✓ Approved by the decree of the university council, on its sixth session, held on 1/3/1342 H
- ✓ Requirements of Admission
- ✓ He should have obtained a general high school certificate or its equivalent from within or without the Kingdom of Saudi Arabia.
- ✓
- ✓ His high school certificate or its equivalent should not be older than five years. The University Council may make some exceptions if convincing reasons are provided.
- ✓ He should be of a good conduct.
- ✓ He should successfully pass any test or interview assigned by the University Council.
- ✓ He should be medically fit.
- ✓ He should provide a permission for study from his reference, if he works in government or private sector.
- ✓ He should satisfy any other conditions the University Council determines, announced during application.
- ✓ He should not be dismissed from any other university for disciplinary or academic reasons. If that became clear after his, his acceptance shall be deemed cancelled from the day of his admission.
- ✓ A student dismissed from the university for academic reasons may be enrolled in some programs that do not award a Bachelor Degree, as
- ✓ decided by the University Council, or whoever it delegates. This shall not be allowed for the transitional program.
- ✓ Those who already had obtained a bachelor's degree, or its equivalent shall not be admitted to obtain another Bachelor degree. The University Rector has the right for exceptions.
- ✓ A student registered for another university degree or below, shall not be admitted, either in the selfsame university or another.

2. Guidance and Orientation Programs for New Students

The Vice Dean of Student Affairs is considered the first and most important service center for the College male & female students. The Vice Dean is providing its services through the Student Activities, Student Fund and full supervision & follow-up of these services so that the students can live in campus environment that suits their aspirations helping them to progress and succeed in their university.

- 1- The committees for student's orientation in any department.
- 2 - The meeting with new students.

3. Student Counseling Services

(academic, career, psychological and social)

Sponsored by the Vice Dean of Student Affairs

- 1- The committees for academic advisor in the departments by faculty members in the male and female sections.

- 2- Assign an academic supervisor for each student with a maximum of 10 students for each faculty member if possible.
- 3- Announce the office hours for each faculty member to be part of the academic supervision and scientific help.
- 4- Provide counselling to the students.
- 5- Awareness of academic difficulties and study skills
- 6- Follow-up students who are struggling to study and help them acquire the skills necessary to increase their educational attainment

- 7 -The availability of full information about the department and its members, and their contact information (website).

- 8 - Develop every day skills of college students
- 9 - Consolidate ethical and behavioral values among students
- 10 - Raise students' awareness and strength their sense of belonging to their nation
- 11- Develop students' talents and tap them to serve their community
- 12- Provide care to students through material and moral support
- 13 - Provide cultural, scientific, social and sports services to students

4. Special Support

(low achievers, disabled, gifted and talented)

Sponsored by Vice Dean of Student Affairs

The committees of student's affairs

- Raise the awareness of students whom are low achievers, disabled and strengthen their sense of belonging to their department
- Provide care to students through material and moral support
- Develop students' talents and benefit from them to serve their community
- Providing cultural, scientific, social and sports services to students

E. Teaching and Administrative Staff

1. Needed Teaching and Administrative Staff

Academic Rank	Specialty		Special Requirements / Skills (if any)	Required Numbers		
	General	Specific		M	F	T
Professors	Physics	Nuclear		1	1	2
		Solid		1	1	2
		Theoretical		1	1	2
		Experimental		1	0	1
		Medical Physics		1	1	2
		Astronomy		1	0	1
Associate Professors	Physics	Nuclear		2	2	4
		Solid		2	2	4
		Theoretical		2	2	4
		Experimental		1	1	2
		Medical Physics		1	1	2
		Astronomy		1	1	2
Assistant Professors	Physics	Nuclear		2	2	4
		Solid		2	2	4
		Theoretical		2	2	4
		Experimental		2	2	4
		Medical Physics		1	1	2
		Astronomy		1	1	2
Lecturers	Physics	Physics		4	4	8
Teaching Assistants	Physics	Physics		6	6	12
Technicians and Laboratory Assistants	Physics	Physics		7	7	14
Administrative and Supportive Staff				2	2	4
Others (specify)				2	3	5

Academic Rank	Specialty		Special Requirements / Skills (if any)	Required Numbers		
	General	Specific		M	F	T
Professors						

Academic Rank	Specialty		Special Requirements / Skills (if any)	Required Numbers		
	General	Specific		M	F	T
Associate Professors						
Assistant Professors						
Lecturers						
Teaching Assistants						
Technicians and Laboratory Assistants						
Administrative and Supportive Staff						
Others (specify)						

2. Professional Development

2.1 Orientation of New Teaching Staff

Describe briefly the process used for orientation of new, visiting and part-time teaching staff

1. Introduce the department's program and described its courses.
 2. Introduce the internal regulations of the university and the higher education.
 3. Organize workshops to introduce the college.
-
1. The department announcements on the university's website for available vacancies.
 2. Forming a committee to study the resumes of the applicants and choose the best.
 3. Place a personal interview with the applicant through the internet.
 4. Employ the distinguished graduates of the department or other physics departments in the Kingdom as lecturers, who will then be sent abroad to do their master of science and doctor of philosophy in one of the physics disciplines.
 - a. Forming several academic committees in the department such as: course timetables committee, scientific research committee, quality committee.
 - b. Activate the recommendations of these committees by discussing it in the department's council and the present the recommendations of these committees.

2.2 Professional Development for Teaching Staff

Describe briefly the plan and arrangements for academic and professional development of teaching staff (e.g., teaching & learning strategies, learning outcomes assessment, professional development, etc.)

- a. Improvement of skills in teaching and student assessment?
 1. Encourage the faculty members to attend conferences and workshops to use them for their promotions.
 2. Launch talks and seminars in the department.
 3. Encourage the faculty members to publish their work.
- b. Other professional development including knowledge of research?
 1. Launch the talks and seminars in the department and the university.
 2. Invite specialist professors to deliver some lectures in the department.

F. Learning Resources, Facilities, and Equipment

1. Learning Resources.

Mechanism for providing and quality assurance of learning resources (textbooks, references and other resource materials, including electronic and web-based resources, etc.)

The staff members may send a request for the provisional of any needed textbook / reference book to the library through the Head of Department.

2. Facilities and Equipment

(Library, laboratories, medical facilities, classrooms, etc.).

1. Using the public library of the University.
2. Adopting the references and text books approved by the council of the physics department or any authorized committee.
3. Participating in the University's database that allows the access to most international publishers.
4. Writing books and translation by the department members.
5. Purchasing and providing the necessary books.

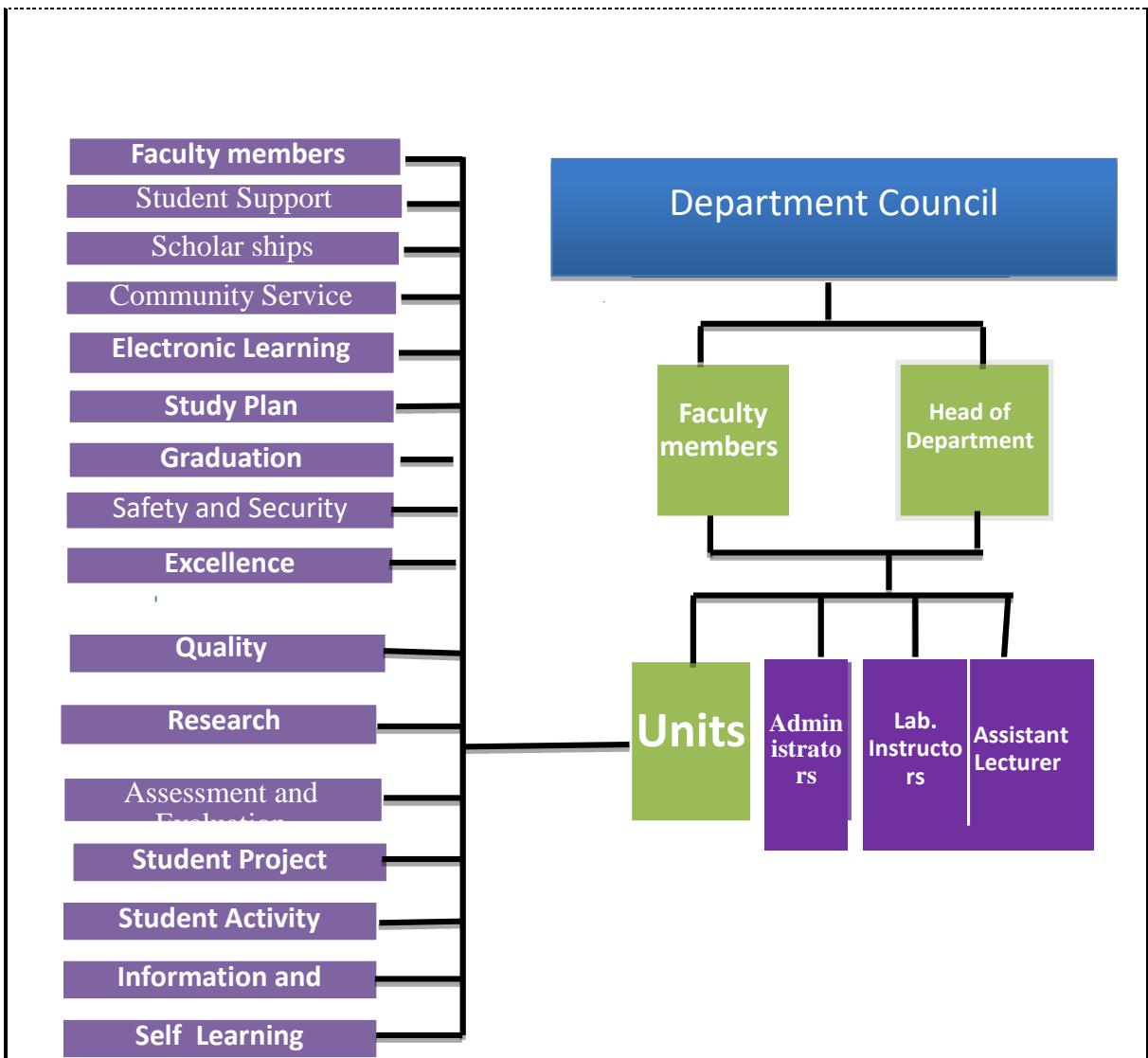
3. Arrangements to Maintain a Healthy and Safe Environment (According to the nature of the program)

G. Program Management and Regulations

1. Program Management

1.1 Program Structure

(including boards, councils, units, committees, etc.)



1.2 Stakeholders Involvement

Describe the representation and involvement of stakeholders in the program planning and development. (students, professional bodies, scientific societies, alumni, employers, etc.)

Stakeholder participation is an increasingly accepted component of natural resources and environmental planning processes, stakeholder participation has been approved in study planning (e.g., the new study plan and to change study plan or improved)

we can invite The stakeholder participation one or two times per year

Another participation is formed from the students. Students' participation is also shear for the study planning and all program activities.

2. Program Regulations

Provide a list of related program regulations, including their link to online version: admission, study and exams, recruitment, appeals and complaint regulations, etc.)

- Unified exams, group marking and group grading for multi-section courses.

- Internal assessment at the end of semester.

H. Program Quality Assurance

1. Program Quality Assurance System

Provide online link to quality assurance manual

<https://www.mu.edu.sa/en/deanships/deanship-quality-and-skills-development>

2. Program Quality Monitoring Procedures

- Polls for the enrolled students and those who graduated from the program
- Alumni surveys
- Establishing an internet open forum to get student feedback

3. Arrangements to Monitor Quality of Courses Taught by other Departments.

- 1- Survey's to evaluate the different courses.
- 2- Survey's to evaluate the faculty member by the student.
- 3- Internal workshops in the department

4. Arrangements Used to Ensure the Consistency between Main Campus and Branches (including male and female sections)

5. Arrangements to Apply the Institutional Regulations Governing the Educational and Research Partnerships (if any).

6. Assessment Plan for Program Learning Outcomes (PLOs), and Mechanisms of Using its Results in the Development Processes

- Polls for the enrolled students and those who graduated from the program
- Alumni surveys
- Establishing an internet open forum to get student feedback
- Asking for external evaluation from external referees
- Polls for the employers to know suitability of these graduates to the job, and how good their scientific knowledge is.
- Reports from Qiyas ()
- Reports from the quality assurance deanship Majmaah University.

7. Program Evaluation Matrix

Evaluation Areas/Aspects	Evaluation Sources/References	Evaluation Methods	Evaluation Time
Leadership	program leaders	Surveys	End of Academic year
Effectiveness of teaching & assessment	students, graduates, alumni	Surveys	End of Academic Semester
Learning resources,	independent reviewers	Surveys	End of Academic year
Partnerships	program leaders	Surveys	End of Academic year
Achievements	program leaders	Surveys	End of Academic year
Scientific Research	program leaders	Surveys	End of Academic year

Evaluation Areas/Aspects (e.g., leadership, effectiveness of teaching & assessment, learning resources, partnerships, etc.)

Evaluation Sources (students, graduates, alumni, faculty, program leaders, administrative staff, employers, independent reviewers, and others (specify))

Evaluation Methods (e.g., Surveys, interviews, visits, etc.)

Evaluation Time (e.g., beginning of semesters, end of academic year, etc.)

8. Program KPIs*

The period to achieve the target (2019) year.

NCAAA Standards المعيار	KPI Code	NCAAA or MU KPI المؤشر	section	Target مستوي الاداء المستهد ف	Actual مستوي الاداء الفعلي 1439- 1440	Internal Benchmark مستوي الاداء المرجعي الداخلي	External Benchmark مستوي الاداء المرجعي الخارجي	New Target مستوي الاداء المستهد ف الجديد
Standard 1 Mission & Objectives التخطيط	S1.1	1. Stakeholder evaluation ratings of the Mission Statement, Objectives and plan of the program. 1. تقييم معرفة أصحاب المصلحة (هيئة تدريس ، طلاب ، خريجين ، جهات توظيف)	Male	82%	80%			80%
			Female	82%	79%			80%
			Over all	82%	79.5 %			80%
			comment	<ul style="list-style-type: none"> Stakeholder evaluation collected from staff, administrations and students for both sections except student in girl section only The result is almost the same for two sections The mission and goals form will review and reevaluation 				

		لرسالة وأهداف وخطة البرنامج		
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NCAAA Standards المعيار	KPI Code	NCAAA or MU KPI المؤشر	section	Target مستوي الاداء المستهدف	Actual مستوي الاداء الفعلي 1439- 1440	Internal Benchmark مستوي الاداء المرجعي الداخلي	External Benchmark مستوي الاداء المرجعي الخارجي	New Target مستوي الاداء المستهدف الجديد
Standard 2 Governance Administration المعيار 2 السلطات الإدارية	S2.1	2. Stakeholder evaluation of the Policy Handbook, including administrative flow chart and job responsibilities. 2. تقييم الاداريين وأعضاء هيئة التدريس لدليل السياسات والهيكل التنظيمي والتوصيف الوظيفي بالبرنامج.	Male	غير متوفر				
			Female					
			Over all					
			comment	<ul style="list-style-type: none"> This KPI will prepare and evaluate 				

NCAAA Standards المعيار	KPI Code	NCAAA or MU KPI المؤشر	section	Target مستوي الاداء المستهدف	Actual مستوي الاداء الفعلي 1439- 1440	Internal Benchmark مستوي الاداء المرجعي الداخلي	External Benchmark مستوي الاداء المرجعي الخارجي	New Target مستوي الاداء المستهدف الجديد
Standard 3 Management of Quality Assurance and Improvement المعيار 3	S3.1	3. Students overall evaluation on the quality of their learning experiences at the institution 3. التقييم الكلية للطلبة لجودة خبرات التعلم في البرنامج (متوسط تقديرات	Male	4	4	4	4.5	4.2
			Female	--	--			
			Over all	4	4			4.2
			comment	<ul style="list-style-type: none"> There is no student in girl section this section group was closed from 2 years ago. 				

		الطلاب على مقياس سنوي تقديري من خمس نقاط لطلبة السنة النهائية)											
S3.3	5. Proportion of programs in which there was independent verification of standards of student achievement by people external to the institution during the year. 5. التصديق المستقل لمعايير تحصيل الطلبة للبرنامج (خارج المؤسسة) خلال السنة.	Male											
		Female											
		Overall											
		comment	لم يتم										
S3.4	6. Proportion of courses in which student evaluations were conducted during the year. 6. نسبة المقررات التي يجرى فيها تقويم للطلاب خلال السنة.		Total courses	Courses evaluated	Total courses	Courses evaluated	Total courses	Courses evaluated	Total courses	Courses evaluated	Total courses	Courses evaluated	
		Male	51	51	51	51					51	51	
		Female	--	--	--	--							
		Overall	51	51	51	51					51	51	
	comment	<ul style="list-style-type: none"> All courses are evaluated every year. There is no student in girl section this section group was closed from 2 years ago. 											

NCAAA Standards المعيار	KPI Code	NCAAA or MU KPI المؤشر	section	Target مستوي الاداء المستهدف	Actual مستوي الاداء الفعلي 1439-1440	Internal Benchmark مستوي الاداء المرجعي الداخلي	External Benchmark مستوي الاداء المرجعي الخارجي	New Target مستوي الاداء المستهدف الجديد
	S4.1	7. Proportion of achievement of the learning outcomes of the program in the independent standard tests such as the tests of the Medical Specialties Authority or the National Center for Measurement and Evaluation. 7. نسبة تحقيق مخرجات التعلم للبرنامج في الاختبارات المعيارية المستقلة مثل اختبارات هيئة التخصصات الطبية أو المركز الوطني للقياس والتقويم.	Male	50%	3.6%			50%
			Female	--	--			--
			Over all	50%	3.6%			50%
			comment	<ul style="list-style-type: none"> There is no student in girl section because this section joined from 2 years only this mean no graduate The result above from Qiyas center which they are include Education girl section with Science boy section Students need to refresh those physics Knowledge and Skills before the exam by training like KAFAYAT 				
Standard 4 Learning and Teaching المعيار 4 التعليم والتعلم	S4.2	8. Students overall rating on the quality of their courses. (Average rating of students on a five point scale on overall evaluation of courses.) 8. تقدير الطلاب العام لجودة المقررات (متوسط تقديرات الطلاب على مقياس تقديري من خمس نقاط للتقييم الكلي للمقررات)	Male	4	3.5			4
			Female					
			Over all	4	3.5			4
			comment	<ul style="list-style-type: none"> All courses are evaluated every year. There is no student in girl section this section group was closed from 2 years ago. There is an improvement like more exams with small degree in the student mark distribution More practical and training in the class 				

4 Learning and Teaching التعليم والتدريس	S4 .3	9. Ratio of students to teaching staff. 9. نسبة الطلاب لهيئة التدريس (بدوام كامل أو ما يعادله)		Staff numbers	Student number	Staff numbers	Student numbers	Staff numbers	Student numbers	Staff numbers	Student numbers	Staff numbers	Student numbers
			Male	15	80	15	80					15	100
			Female	8	--	8	--					8	25
			Overall	23	80	23	80					23	125
			comment	<ul style="list-style-type: none"> There is a need to hire new staff in some specialties like nuclear physics, health physics, radiation etc. The staff teach some physics course in another programs (e.g. mathematics, Chemistry,) The number of students recorded here in physics students only. The program has especial character so needs a more staff with different subject. There are four faculty members assigned to the University by other work within the University 									
	S4 .4	10. Proportion of teaching staff with verified doctoral qualifications. 10. نسبة أعضاء هيئة التدريس الذين يحملون مؤهلات دكتوراه مصادق عليها.		Total Staff	Staff PhD	Total Staff	Staff PhD	Total Staff	Staff PhD	Total Staff	Staff PhD	Total Staff	Staff PhD
			Male	19	16	19	16					20	17
			Female	5	3	5	3					5	3
			Overall	24	19	24	19					25	20
			comment	<ul style="list-style-type: none"> Only few staff have not PhD, they are Saudi lecturers. 									
	S4 .5	11. Percentage of		Total Student	Student Successes	Total Student	Student Successes	Total Student	Student Successes	Total Student	Student Successes	Total Student	Student Successes

S4.6	students entering programs who successfully complete first year. 11. نسبة الطلاب الداخلين بالبرامج الذين أكملوا السنة الأولى بنجاح.	Male	32	20	32	7					32	20	
		Female											
		Overall	32	20	32	7						32	20
		comment											
	12. Proportion of students entering undergraduate programs who complete those programs in minimum time. 12. نسبة الطلاب الداخلين في برامج البكالوريوس الذين أكملوا في الحد الأدنى من المدة.		Entering Student	Successes In time	Entering Student	Successes In time	Entering Student	Successes In time	Entering Student	Successes In time	Entering Student	Successes In time	
		Male	25	10	26	3					25	10	
		Female	--	--									
		Overall	25	10	26	3					25	10	
	comment	<ul style="list-style-type: none"> The percentage of student who complete at in minimum time is 11.35% is small This ratio because the students' enrollment in the program are very poor in English and mathematics. There is an improvement like more exams with small degree in the student mark distribution More practical and training in the class 											

4 Learning and Teaching التعليم والتعلم	S4.7	13. Proportion of graduates from undergraduate programs who within six months of graduation are: (a) employed (b) enrolled in further study (c) not seeking employment or further study 13. نسبة الخريجين من برامج البكالوريوس الذين في مدة 6 أشهر من التخرج (أ) - توظفوا (ب) - سجلوا في دراسة (ج) - لم يبحثوا عن توظيف أو دراسة	Male	30%	20%	50%	30%	30%
				10%	10%	0%	20%	10%
				60%	70%	50%	50%	60%
			Female	--	--			
			Over all	30%	20%	50%	30%	30%
				10%	10%	0%	20%	10%
				60%	70%	50%	50%	60%
			comment	<ul style="list-style-type: none"> The number of employed is acceptable. The number of enrolled in further study is expected to increase next year is the master program will start. 				

				<ul style="list-style-type: none"> There is no student in girl section this section group was closed from 2 years ago.
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NCAA A Standards المعيار	KPI Code	NCAAA or MU KPI المؤشر		Target		Actual		Internal Benchmark		External Benchmark		New Target		
				مستوي الاداء المستهدف	مستوي الاداء الفعلي 1439-1440	مستوي الاداء المرجعي الداخلي	مستوي الاداء المرجعي الخارجي	مستوي الاداء المستهدف الجديد						
Standard 5 Student Advising المعيار 5 الإرشاد الطلابي	S5.1	16. Student evaluation of academic and career counselling. (Average rating on the adequacy of academic and career counselling on a five-point scale in an annual survey of final year students.) 16. تقويم الطلاب للإرشاد المهني والأكاديمي (متوسط التقديرات عن مدى مناسبة الإرشاد النفسي والمهني على مقياس تقديري سنوي من خمس نقاط لطلبة السنة النهائية)	Male	4.2	4	4	4	3.5	4.2					
			Female											
			Overall	4.2	4	4	3.5	4.2						
			comment	The students are satisfied on the counselling.										
	S5.2	17. Proportion of students have one notification or more 17. نسبة الطلاب الحاصلين		Student number	Student with not.	Student number	Student with not.	Student number	Student with not.	Student number	Student with not.	Student number	Student with not.	
		Male	94	15	94	27						100	100	
		Female												
		Overall	94	15	94	27						100	100	
		comment	There is no student in girl section from 2 years ago											

		على إنذار فأكثر										
S5 .3	18. Proportion of deprived students. 18. نسبة الطلاب المحرورين		Student number	Student deprived	Student number	Student deprived	Student number	Student deprived	Student number	Student deprived	Student number	Student deprived
		Male	94	5	94	8					94	5
		Female										
		Overall	94	5	94	8					94	5
		comment	<ul style="list-style-type: none"> Deprived students recorded according the statistical information from Exam-gate college of Science Al-Zulfi There is no student in girl section from 2 years ago 									
Stand ard 5 Stu dent Servi ces المعيار 5 الخدمات الطلابية	19. Proportion of student satisfaction with student services (activities, nutrition services, people with special needs ...) 19. نسبة رضا الطلاب عن الخدمات الطلابية (انشطة، خدمات التغذية، خدمات ذوي الاحتياجات الخاصة...)											
		Male	85 %		80 %		80 %		N A		85 %	
		Female										
		Overall	85 %		80 %		80 %		N A		85 %	
		comment	The students are likely satisfied on the student services. However, some improvement should be performed.									
S5 .5	21. Proportion of students participat ing in extracurr		Student num ber	Stu dent with share	Stu dent num ber	Stu dent with share	Stu dent num ber	Stu dent with share	Stu dent num ber	Stu dent with share	Stu dent num ber	Stu dent with share
		Male	94	80	94	80					94	85
		Female										
		Overall	94	80	94	80					94	85

		icular activities. 21. نسبة الطلاب المشاركين في الأنشطة اللاصفية.	comment In the extracurricular activities students are shared in the Physics Club, Free day, visiting some factories, visiting schools, hospital, Astronomical Observatory, and also shared in the sporting and academy council
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NCAAA Standards المعيار	KPI Code	NCAAA or MU KPI المؤشر	Target مستوي الاداء المستهدف	Actual مستوي الاداء الفعلي 1439-1440	Internal Benchmark مستوي الاداء المرجعي الداخلي	External Benchmark مستوي الاداء المرجعي الخارجي	New Target مستوي الاداء المستهدف الجديد
Standard 6 Learning Resources المعيار 6 مصادر التعلم	S6.1	22. Stakeholder evaluation of library and media center. 22. تقييم المستخدمين لخدمات المكتبة ومركز الوسائط.	4.2	4.3	4.3	4	4.5
	S6.2	23. Stakeholder evaluation of the digital library. 23. تقييم المستخدمين لخدمات المكتبة الرقمية.	4.2	4	4	4	4.3
	Comment		The students and staff take benefit from the digital library (journals, books, etc). however, some other publisher should be added like IOP Publishing etc.				

NCAAA Standards المعيار	KPI Code	NCAAA or MU KPI المؤشر	Target مستوي الاداء المستهدف	Actual مستوي الاداء الفعلي 1439-1440	Internal Benchmark مستوي الاداء المرجعي الداخلي	External Benchmark مستوي الاداء المرجعي الخارجي	New Target مستوي الاداء المستهدف الجديد
Standard 7 Information technology (IT) المعيار 7 تقنية المعلومات	S7.1	24. Stakeholder evaluation of the IT services. (IT availability – Security – Maintenance – Accessibility - Support systems - Software and up-dates - Age of hardware	4.2	3.75	3.75	4.3	4.3

		24. تقييم المستفيدين لخدمات تقنية المعلومات (توفر الخدمة – الأمن - الصيانة - الدعم الفني – الأجهزة – البرامج.					
		Comment	An important effort should be done to improve the IT services.				
	S7.2	25. Stakeholder evaluation of e-learning services. 25. تقييم المستفيدين من خدمات التعليم الالكتروني	4.3	4.1	4.1	4.4	4.5
		Comment	Even though there is overall satisfaction on the e-learning services, further effort should be done.				

NCAA A Standards المعيار	KPI Code	NCAAA or MU KPI المؤشر	Target		Actual		Internal Benchmark		External Benchmark		New Target		
			مستوي الاداء المستهدف	مستوي الاداء الفعلي - 1439- 1440	مستوي الاداء المرجعي الداخلي	مستوي الاداء المرجعي الخارجي	مستوي الاداء المستهدف الجديد						
Standard 9 Faculty and Staff Employment Processes (Human resources HR) المعيار 9 الموارد البشرية	S9.1	26. Proportion of teaching staff leaving the institution in the past year for reasons other than age retirement. 26. نسبة أعضاء هيئة التدريس الذين غادروا الجامعة في السنة السابقة لأسباب عدا التقاعد بسبب بلوغ السن النظامية.	Staff number	Staff number	Staff number	Staff number	Staff number	Staff number	Staff number	Staff number	Staff number	Staff number	
			Staff share	Staff share	Staff share	Staff share	Staff share	Staff share	Staff share	Staff share	Staff share		
			Male	19	0	19	2					20	0
			Female	8	0	8	0					8	0
	Overall	27	0	27	2					28	0		
		comment	More encouragement such as salary rise should be achieved.										
	S9.2	27. Proportion of teaching staff	Staff number	Staff number	Staff number	Staff number	Staff number	Staff number	Staff number	Staff number	Staff number	Staff number	
		Male	19	16	19	16					20	20	

	participating in professional development activities during the past year. 27. نسبة أعضاء هيئة التدريس المشتركين في أنشطة التطوير المهني السنة الماضية.	Female	8	3	8	3					8	5
		Overall	27	19	27	19					28	25
		comment	Almost all members participate actively to professional development activities.									

NCAAA Standards المعيار	KPI Code	NCAAA or MU KPI المؤشر	Target مستوي الاداء المستهدف		Actual مستوي الاداء الفعلي -1439 1440		Internal Benchmark مستوي الاداء المرجعي الداخلي		External Benchmark مستوي الاداء المرجعي الخارجي		New Target مستوي الاداء المستهدف الجديد		
			Staff number	Staff public	Staff number	Staff public	Staff number	Staff public	Staff number	Staff public	Staff number	Staff public	
Standard 10 Research المعيار 10 البحث العلمي	S1 0.1	28. Number of refereed publications in the previous year per full time equivalent member of teaching staff. 28. عدد ما نشر في مجلات علمية محكمة في السنة السابقة لكل عضو هيئة تدريس بدوام كامل أو ما يعادله (ويعتمد في	Male	19	27	19	30					20	35
			Female	8	5	2	3	-		-		8	5
			Overall	27	32	31	33					28	41
			comment	The department has more than one ISI publication for each staff member. It is the ranked among the three best department at the level of Majmaah University. Many people have Q1 and a high impact factor publication.									

		المنشورات الصبيغ المقرة في لوائح مجلس التعليم العالي ولا تشمل المشاركة في المؤتمرات (
S1 0.2	29. Number of citation s in refereed journals in the previou s year per full time equivale nt teachin g staff. 29 عدد الاستشهادا ت المرجعية في العام الماضي نسبة لإجمالي أعضاء هيئة تدريس.		Staff num ber	Staf f citat ion	Staff num ber	Staf f citat ion	Staff num ber	Staf f citat ion	Staff num ber	Staf f citat ion	Staff num ber	Staf f citat ion
		Male	19	285	19	380					20	500
		Fema le	8	20	8	8	-		-		8	20
		Over all	27	305	27	388					28	520
	com ment	The published papers have a high level of citations. Some papers are classified as hot papers.										
S1 0.3	30. Proport ion of full time member of teachin g staff with at least one refereed publicat ion during the previou s year. 30 نسبة أعضاء		Staff num ber	Staf f pape rs	Staff num ber	Staf f pape rs	Staff num ber	Staf f pape rs	Staff num ber	Staf f pape rs	Staff num ber	Staf f pape rs
		Male	15	14	15	14					15	15
		Fema le	8	6	8	2					8	6
		Over all	27	23	27	19					23	21
	com ment	Almost all staff published an indexed paper. Only few members should take more care to publish paper in ISI or Scopus database. There are four faculty members assigned to the University by other work within the University										

		هيئة التدريس (بدوام كامل) الذين لديهم على الأقل بحث واحد محكم في السنة السابقة.										
S1 0.4	31. Number of papers or reports present ed at academi c confe rences during the past year per full time equivale nt member s of teachin g staff.		Staff num ber	Staf f pape rs	Staff num ber	Staf f pape rs	Staff num ber	Staf f pape rs	Staff num ber	Staf f pape rs	Staff num ber	Staf f pape rs
		Male	15	2	15	1					15	3
		Fema le	8	2	8	0					8	2
		Over all	23	4	23	1					23	5
	comment	<p>The university should encourage more participation in the conference.</p> <p>It should be find a more better solution for the foreign faculty also to participate in the international conference.</p> <p>There are four faculty members assigned to the University by other work within the University</p>										
S1 0.5	32. Number of student researc h (referee d publicat ions) (with teachin	Male	3	2							3	
		Fema le	0	0							2	
		Over all	3	2							5	
	comment	<p>The participation of the students in publications should be more encouraged for all sides (students and supervisors)</p>										

		g staff , with colleague, single) عدد 32 الأبحاث الطلابية (مشتركة مع أعضاء هيئة التدريس ، مع زميل ، مستقل)						
S1 0.6	33. Research income from external sources in the past year as a proportion of the number of full time teaching staff members. 33. دخل البحث من مصادر خارجية في السنة السابقة نسبة لعدد أعضاء هيئة التدريس بدوام كامل	Male	6000 SAR	3000 SAR	?	10000 SAR	10000 SAR	
		Female	2000 SAR	1000 SAR			4000 SAR	
		Overall	8000 SAR	4000 SAR		10000 SAR	14000 SAR	
		comment	The competition on National Programs is still very difficult. A unit should be dedicated to help staff when applying to National Programs. The duty of some active staff should reduce to give them the opportunity to participate to National Programs.					

NCAAA Standards المعيار	KPI Code	NCAAA or MU KPI المؤشر	Target مستوي الاداء المستهدف		Actual مستوي الاداء الفعلي 1439-1440		Internal Benchmark مستوي الاداء المرجعي الداخلي		External Benchmark مستوي الاداء المرجعي الخارجي		New Target مستوي الاداء المستهدف الجديد		
			Staff number	Staff shared	Staff number	Staff shared	Staff number	Staff shared	Staff number	Staff shared	Staff number	Staff shared	
Standard 11 Communi	S1 1.1	34. Proportion of full time teaching and other staff actively	Male	19	10	19	6					19	10

ty Servi ce	المعيار 11 خدمة المجت مع	engaged in community service activities. 34. نسبة أعضاء هيئة التدريس وغيرهم من الموظفين الذين شاركوا في أنشطة لخدمة المجتمع.	Female	8	4	8	2					8	4
			Over all	27	14	27	9					27	14
		com ment											
		S1 1.2	35. Number of community education programs provided by the program. 35. عدد برامج التثقيف المجتمعي المقدمة من البرنامج	Male	4		3		5		6		5
Female	4				2						5		
Over all	8				5		5		6		10		
com ment													

Strengths:

- Stakeholder evaluation collected from staff, administrations and students for both sections except student in girl section only
- The result is almost the same for two sections
- All courses are evaluated every year.
- Only few staff have not PhD, they are Saudi lecturers.
- The number of employed is acceptable.
- The number of enrolled in further study is expected to increase next year is the master program will start.
- The students are satisfied on the counselling.
- The students are likely satisfied on the student services. However, some improvement should be performed
- Almost all staff published an indexed paper.
- Only few members should take more care to publish paper in ISI or Scopus database.
- The published papers have a high level of citations.
- Some papers are classified as hot papers.
- The department has more than one ISI publication for each staff member. It is the ranked among the three best department at the level of Majmaah University.
- Many people have Q1 and a high impact factor publication.
- In the extracurricular activities students are shared in the Physics Club, Free day, visiting some factories, visiting schools, hospital, Astronomical Observatory, and also shared in the sporting and academy council
- The students and staff take benefit from the digital library (journals, books, etc). however, some other publisher should be added like IOP Publishing etc.
- Even though there is overall satisfaction on the e-learning services, further effort should be done.
- There are four faculty members assigned to the University by other work within the University

Areas for Improvement:

- There is no student in girl section this section group was closed from 2 years ago.
- Students need to refresh those physics Knowledge and Skills before the exam by training like KAFAYAT
- There is an improvement like more exams with small degree in the student mark distribution
- The mission and goals form will review and reevaluation
- This KPI will prepare and evaluate
- The result above from Qiyas center which they are include Education girl section with Science boy section
- More practical and training in the class
- The percentage of student who complete at in minimum time is 11.35% is small
- This ratio because the students' enrollment in the program are very poor in English and mathematics.
- There is an improvement like more exams with small degree in the student mark distribution
- More practical and training in the class
- The competition on National Programs is still very difficult.
- A unit should be dedicated to help staff when applying to National Programs.
- The duty of some active staff should reduce to give them the opportunity to participate to National Programs.
- The participation of the students in publications should be more encouraged for all sides (students and supervisors)
- The university should encourage more participation in the conference.
- It should be find a more better solution for the foreign faculty also to participate in the international conference.
- Even though there is overall satisfaction on the e-learning services, further effort should be done

Priorities for Improvement:

- There is no student in girl section this section group was closed from 2 years ago.
- Students need to refresh those physics Knowledge and Skills before the exam by training like KAFAYAT
- There is an improvement like more exams with small degree in the student mark distribution
- More practical and training in the class
- The percentage of student who complete at in minimum time is 11.35% is small
- This ratio because the students' enrollment in the program are very poor in English and mathematics

No	KPIs Code	KPIs	Target	Measurement Methods	Measurement Time
1					
2					
3					
4					
5					
.....					

* including KPIs required by NCAAA

I. Specification Approval Data

Council / Committee	PHYSICS DEPARTMENT COUNCLING MEETING
Reference No.	(7)
Date	1/4/1441