

رؤية
VISION 2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA


كلية العلوم
College of Science


جامعة الجوف
Jouf University

Physics Program Manual

1443



سَمَاءُ الْبَيْتِ الْبَرِّ

لَا إِلَهَ إِلَّا اللَّهُ مُحَمَّدٌ رَسُوْلُهُ



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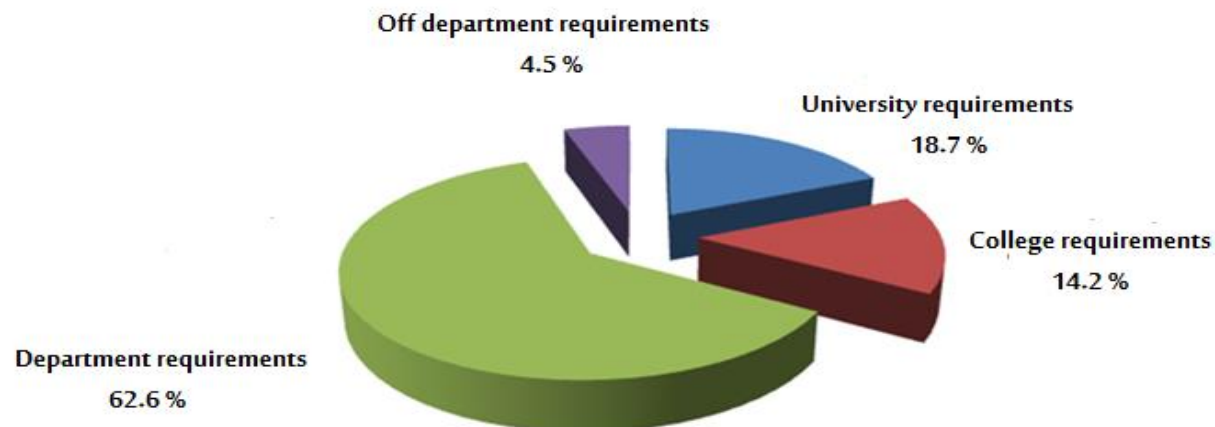
Overview of Bachelor of Science in Physics (BSc Physics)

BSc Physics was established with the establishment of the Department of Physics at the College of Science in 1425 AH (2006 AD) at Jouf University as one of the departments of the college of science. The establishment of the department had to develop a new study plan aimed at keeping pace with the stage so that scientific cadres could be prepared. Specialized contributes to the process of scientific progress and the advancement of the graduate's level as a productive and effective human resource in society.

Reasons for Establishing the Program:

- 1-Graduating cadres specialized in physics and its applications able to contribute achieving the Kingdom's 2030 vision.
- 2-Reuniting families and reducing students travel for physics study in national universities.
- 3-Providing graduates in physics with the practical skills necessary for them to enter the workforce.
- 4-Reducing expatriate labor in the field of physics and relying on national talent.

Total Credit Hours for Completing the Program: (135 Credit Hours)



Program coordinator Speech

Praise be to ALLAH, Lord of the Worlds, and prayers and peace be upon the prophet Muhammad, who was sent as a mercy to the worlds, and all his family and companions. On my colleagues' behalf, it is my pleasure to welcome your visit to our website to learn about the progress of this department and its contributions to the university and surrounding community. The department of Physics was established in 2006, and it is one of the first department to be established in the college of science. Since its establishment, the department has witnessed continuous growth in many aspects, most notably the increase in the number of students, faculty members, laboratories, scientific publication rate.

Proceeding from the importance of physics in human life and based on the contributions and invention made by physicists throughout the ages, we strive to provide a stimulating educational environment and high-quality research. The department has about forty members of different academic ranks (demonstrator, lecturer, assistant professor, associate professor, and professor) who work hard to meet all student needs, in the realization of all members that students are the ones who will lead the journey of development after God Almighty in the future.

It also includes qualified administrative and technical staff. The Department of Physics offers two academic programmes, the Bachelor's Program in General Physics and the Master's Program in Materials Science. The Physics Department has well-equipped laboratories serving the students of both stages, which are solid state and electronics physics, radiological and nuclear physics, modern physics, electromagnetic, optics, general physics in addition to the materials research laboratories. It is one of the leading departments at the level of the College of Science by providing workshops and training courses for many individuals and groups of society. The department includes several research groups in different disciplines that publish in prestigious international scientific journals. We always welcome you and confirm our readiness to provide scientific and research content for the upliftment of society and the nation.

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Mission and Objective of Physics Program

Mission:

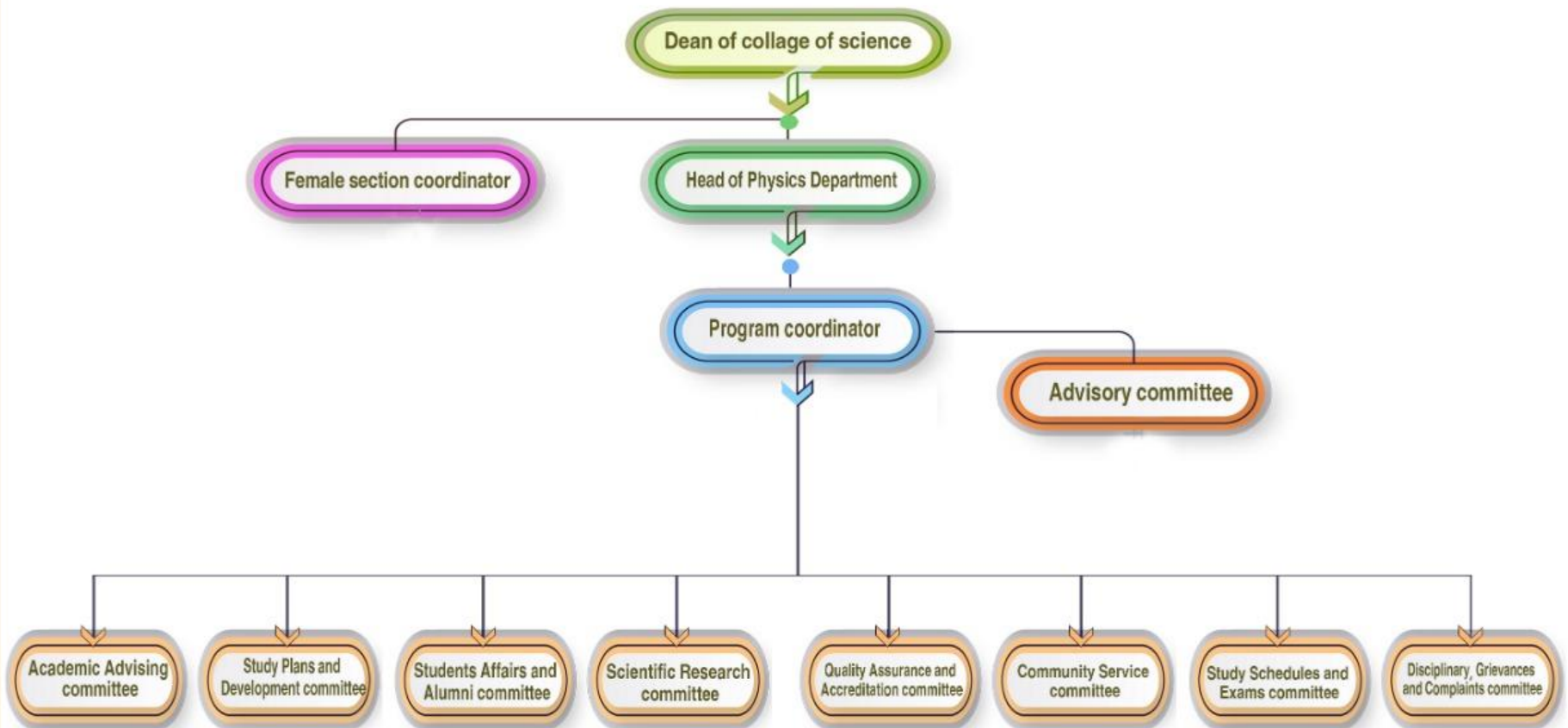
- ✓ Preparing qualified graduates and contributing to scientific research in the field of physics and its applications to serve and develop society.

Objectives:

1. Providing educational outcomes compatible with academic accreditation standards.
2. Providing a distinguished academic environment in the field of physics.
3. Preparing scientifically qualified graduates in the field of physics and its applications to meet the needs of the labor market.
4. Providing consultations in the field of physics to serve the community.
5. Providing distinguished scientific and applied research in the field of physics

Program Structural Organization

The organization structure of Bachelor of Science in physics program



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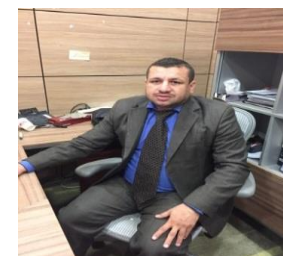
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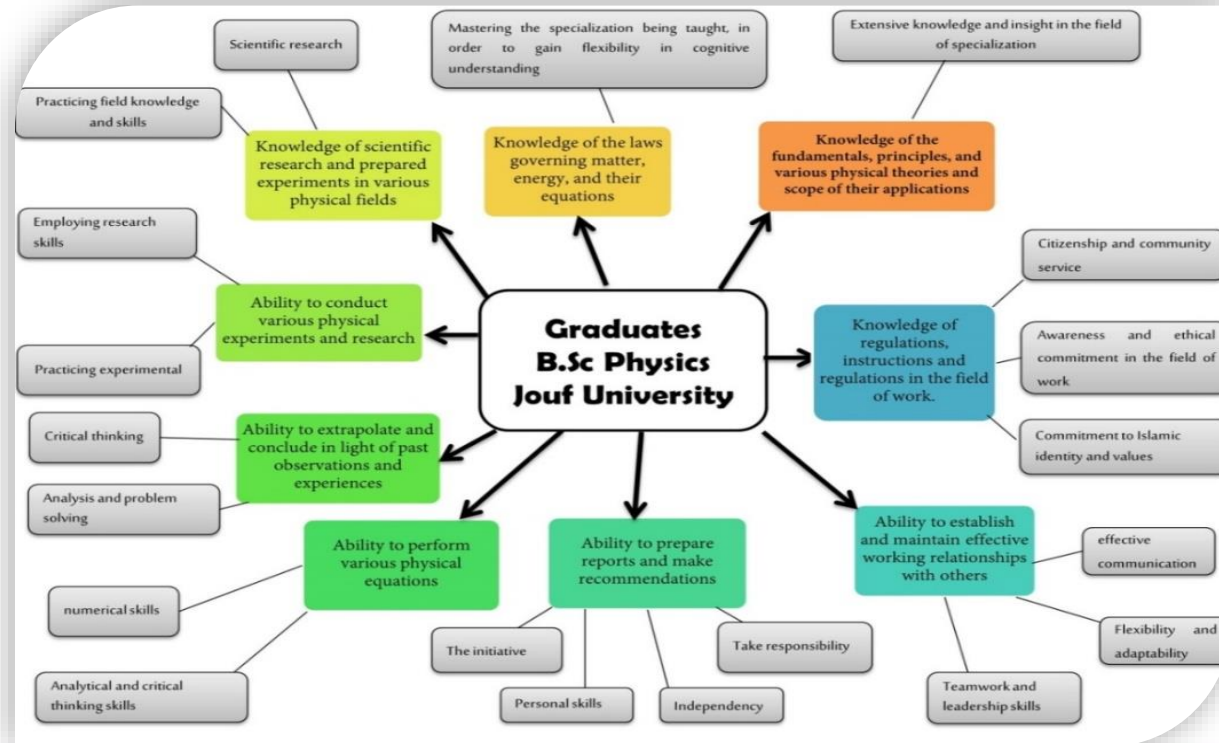
Professional Occupations/Jobs:

For graduates of physics programs, there are numerous employment opportunities, including these:

- ✓ Ministry of Education.
- ✓ Ministry of Energy, Industry and Mineral Resources.
- ✓ Ministry of Communications and Information Technology.
- ✓ Ministry of Water and Electricity.
- ✓ Ministry of Environment, Water and Agriculture.
- ✓ Ministry of Defense.
- ✓ Rentable Energies Research Centers.
- ✓ Companies and Factories specialized in industry and development of Materials and Nanotechnology.
- ✓ Companies specialized in field of electronics and Maintenance of electric Instruments and Equipment.
- ✓ Radiation Protection and Curing Centers, Operation and Maintenance of Medical Equipment.
- ✓ Saudi Standards , Metrology and Quality Organization
- ✓ Modeling and simulation Centers in industry and scientific experiments.
- ✓ Astronomical Observatories and Meteorology Centers.

Graduate Attributes

- Knowledge of the fundamentals, principles, and various physical theories and scope of their applications.
- Knowledge of the laws governing matter, energy, and their equations.
- Knowledge of scientific research and prepared experiments in various physical fields.
- Able to conduct various physical experiments and research
- Able to extrapolate and conclude in light of past observations and experiences
- Able to perform various physical equations
- Able to prepare reports and make recommendations
- Able to establish and maintain effective working relationships with others
- Knowledge of regulations, instructions and regulations in the field of work.



Program learning Outcomes

Knowledge and Understanding

By the end of the program, student will be able to:

- K1** Explore fundamental concepts, facts and principles, and applications of physics.
- K2** Demonstrate mathematical theories and commonly used means in Physics.
- K3** Critique theories, concepts and applications of modern physics
- K4** Outline processes, materials, techniques, practices, conventions and/or terminology in physics field in various complex contexts

Skills:

By the end of the program student will be able to

- S1** Solve broadly defined scientific problems by applying knowledge of mathematics and science to areas relevant to physics.
- S2** Formulate and/or design a system, process, procedure or program to meet desired needs independently
- S3** Analyze practical experiments and hypotheses to solve problems in Physics.

Values:

By the end of the program student will be able to

- V1** Sustain effectively Islamic values, ethical and professional responsibilities and the impact of scientific solutions in global, economic, environmental, and societal contexts
- V2** Collaborate effectively within teams via establishing goals, planning tasks, meeting deadlines, and analyzing risk and uncertainty
- V3** Learn self-sufficiently and continuously to improve social and professional leadership value

Study plane of BSc Physics Program

Table 1: Curriculum Structure

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Institution Requirements	Required	9	21	15.55 %
	Elective	2	4	2.9 %
College Requirements	Required	8	25	18.5 %
	Elective	0	0	0 %
Program Requirements	Required	21	66	48 %
	Elective	4	12	8 %
Capstone Course/Project	Required	4	7	5%
Field Experience/ Internship	Required	1	3	2%
Others				
Total		49	135	100%

Study plane of BSc Physics Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 1	ENGL 103	English Language I	Required		3	I
	MTH 101	Introductory Mathematics	Required		3	C
	BIO 101	General Biology	Required		3	C
	ISL 101	Fundamentals of Islamic culture	Required		2	I
	CIS 101	Computer Skills	Required		3	I
	EDU 101	University Life Skills	Required		2	I
					16	
Level 2	ENGL 104	English Language II	Required	ENGL 103	3	I
	PHS 101	General Physics (1)	Required		4	C
	MTH 102	Differential Calculus	Required	MTH 101	3	C
	CHM 101	General Chemistry (1)	Required		4	C
	ARB 100	Language Skills	Required		2	I
	ISL 100	Studies in the Biography of Prophet	Required		2	I
					18	
Level 3					16	

Study plane of BSc Physics Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 3	ARB 102	Editing	Required	ARB 100	2	I
	MTH 203	Integral Calculus	Required	MTH 102	3	C
	PHS 202	General Physics (2)	Required	PHS101	4	D
	PHS 211	Classical Mechanics (1)	Required	PHS101	3	D
	Math 271	General Statistics	Required	MTH 101	2	C
	ISL xxx	Elective course from University requirement*	Required		2	I
					16	
Level 4	PHS 212	Classical Mechanics (2)	Required	PHS 211	3	D
	PHS 213	Vibrations and Waves	Required	PHS 101	3	D
	PHS 203	Mathematical Physics (1)	Required	PHS101	3	D
	PHS 231	Electromagnetism	Required	PHS202	4	D
	MTH 284	Introduction to Differential Equations	Required	MTH 203	3	C
	ISL xxx	Elective course from University requirement*	<i>Elective</i>	-	2	I
					18	

Study plane of BSc Physics Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 5	PHS 341	Modern Physics	Required	PHS 202	3	D
	PHS 332	Electromagnetism Lab	Required	PHS 231	2	D
	PHS 304	Mathematical Physics (2)	Required	PHS 203	2	D
	PHS 351	Optics	Required	PHS 202	3	D
	PHS 352	Optics Lab	Required	PHS 202, Synchronous with PHS 351	2	D
	PHS 321	Thermal and Statistical Physics	Required	PHS 202	3	D
	EDU 102 or BUS 101	Elective course from University requirement**	Elective	-	2	I
				17		
Level 6	PHS 342	Modern Physics Lab	Required	PHS341	2	D
	PHS 333	Electronics	Required	PHS 231	3	D
	PHS 334	Electronics Lab	Required	PHS 231, Synchronous with PHS 333	2	D
	PHS 335	Computational Physics	Required	PHS 304	3	D
	PHS 361	Solid State Physics (1)	Required	PHS 341	3	D
	PHS xxx	Elective course (List A)	Elective	PHS xxx	3	D
					16	

Study plane of BSc Physics Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 7	PHS 422	Quantum Mechanics (1)	Required	PHS 341	3	D
	PHS 471	Nuclear Physics	Required	PHS 341	3	D
	PHS 462	Solid State Physics (2)	Required	PHS 361	3	D
	PHS 498	Field Training	Required	Pass 90 units	3	D
	PHS xxx	Elective course (List B)	Elective	PHS xxx	3	D
	PHS xxx	Elective course (List B)	Elective	PHS xxx	3	D
					18	
Level 8	PHS 423	Quantum Mechanics (2)	Required	PHS 422	3	D
	PHS 472	Radiation Physics	Required	PHS 471	3	D
	PHS 473	Nuclear Physics Lab	Required	PHS 471	2	D
	PHS 463	Solid State Physics Lab	Required	PHS 462	2	D
	PHS 499	Research Project	Required	Pass 100 units	3	D
	PHS xxx	Elective course (List C)	Elective	PHS xxx	3	D
					16	

Student evaluation

The students are graded according to the following system:

- **Courses without practical part**
 - a. Activities (Quiz, assignments and blackboard) : 20%
 - b. Midterm exams : 20%
 - c. Final exam : 60 %
- **Courses with practical part**
 - a. Activities (Quiz, assignments and blackboard) : 10%
 - b. Midterm exams : 40%
 - c. Practical exams : 20%
 - d. Final exam : 40%

The midterm and final exams are written exams.

- The final exam is unified for all sections.
- The final exam is prepared by the course coordinator
- The practical exam usually involves a written part and a lab experiment
- The written exams consist of diverse questions and measures intended learning outcomes.
- The midterm exams are typically administered in Weeks 6 and 12.
- Practical exams are typically administered in Week 14.
- Graduation research projects are evaluated (by a temporary committee of college faculty members) in Week 14.
- The final exam is administered in Weeks 15 and 16.
- The grades of students are distributed as follows:

Student evaluation

S.N.	Letter Grade	Mark	Grade
1	A+	95-100	Highly excellent
2	A	90-94	Excellent
3	B+	85-89	Highly very good
4	B	80-84	Very good
5	C+	75-79	Highly good
6	C	70-74	Good
7	D+	65-69	Average
8	D	60-64	Passed
9	F	Lower than 60	Failed

Student Admission and Support

□ **Admission to the Program:**

Registration at Jouf University is done through the University's admission portal, and the application for admission to the University is registered completely electronically, and the student does not need to review the Deanship of Admission and Registration at the University during the application stage. By his inquiry either to the University through the website, Twitter account or the unified number, the Deanship of Admission and Registration explained through the electronic portal guide for admission to Jouf University the steps required to register applications for admission to the University for new students, and came as follows:

University council determines at the suggestion of college council and the relevant authorities in a number of university students to be admitted in the next academic year.

The applicant must apply a request of enrollment to the Deanship of Admission and Registration (electronic registration). Deadlines are announced in each academic year.

The applicant must meet the requirements to attend the university.

The applicant should have a secondary school certificate or equivalent from within the KSA or from abroad.

The success rate of students at the secondary level should be as determined by the university in the academic year that the students apply for admission.

It should not have been on receiving a high school or its equivalent for more than five years, The Council of the University exception to this requirement if compelling reasons available.

Successfully pass any test or personal interview held by the college or University.

The applicant must have good behavior.

Not be separated from the other University for Disciplinary Reasons.

Shall not accept those with a bachelor's degree, or equivalent to get a bachelor again, and the president exception to that.

To satisfy any other requirements prescribed by the University Council that is declare the time of submission.

The applicant must pass a medical examination to be medically fit and free of infectious diseases.

The Admission and Registration manual is available through the following link:

<https://drive.google.com/file/d/1OpKrsOr6kBVYwy6JvPFvDgixo2kTpSVR/view?usp=sharing>

□ **Criteria for transfer**

The department applies the transfer policies and procedures contained A List of Rules and Regulations of Undergraduate Study and Examinations in Al-Jouf University. These guidelines are based upon and consistent with the general rules of the Saudi Ministry of Higher Education and are available on the Deanship of Admissions and Registration website at: https://dar.ju.edu.sa/forms/list_laws_E.pdf



Student appeals

Policies and regulations of student appeal on academic matters including: final grade appeal, academic probation and transfer are outlined in the student handbook/guide “Study and exams operational rules” also can be accessed through the Deanship of Admissions and Registration Affairs homepage. The policy describes criteria for appeal, timeline and personnel involved

(http://dar.ju.edu.sa/forms/regulations_JU_Final_Version-3.pdf).

Student complaints:

1. Student complaints/suggestions (academic/non-academic) are handled by a Complaint Processing Committee.
 2. The committee is formed of the dean, vice-dean and department heads.
 3. If the complaint concerns a member of the committee, his/her membership is suspended to avoid alleged conflict of interest.
 4. Student complaints/suggestions are handled with complete seriousness, transparency, and indifference irrespective of any personal considerations.
 5. Student complaints/suggestions are handled according to the following mechanism:
 - a. The student fills a complaint form.
 - b. The student submits the form to the coordinator of the Complaint Processing Committee by hand or through email.
 - c. The committee coordinator assigns a serial number to the form and records its number and details in a log book.
- During committee scheduled meetings, the members scrutinize and discuss the complaint/suggestion to determine:
- a. The seriousness and relevance of the complaint/suggestion.
 - b. The party (department, unit, administration) to whom the complaint/suggestion should be directed.
 - c. The time frame required to resolve the issues reported in the complaint or implement the suggestions provided by the student.
- The committee forwards a summary of the complaint/suggestion to the relevant party to take appropriate actions.
- The committee processes the actions taken by the relevant party and informs the student with the reply of the party and the measures taken to address the student’s complaint/suggestion.
- The student shall receive a reply to his/her submitted complaint/suggestion from the committee coordinator within 5 working days of the initial submission of the complaint form.

Guidance and Orientation Programs for New Students

❑ At the University level

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 Student Activities, Student Fund and full supervision & follow-up of these services so that the students can live in a campus environment that suits their aspirations helping them to progress and succeed in their university.

Her most important duties towards new students are: Introducing the guided students to the university's systems and regulations, especially those related to the test regulations and study system, the disciplinary regulations for students, and other things that the student is interested in knowing.

❑ At the College level

At the beginning of new academic year, the Academic Advising Unit in cooperation with the Students Activities committee at the college of Science, Jouf University, organizes a ceremony for the new students.

❑ At the Department level

- Each faculty member will be assigned a group of students for counselling and advising. A student will be required to meet his academic advisor at least twice a semester, the first visit being before the registration.
- Each faculty member will be asked to post his office hours during which a student can visit for receiving counselling and advising.

Students Services (academic, career, psychological and social)

❑ Academic Counseling

- 1- Organizing an orientation meeting at the beginning of each semester of each year to introduce the student, the new curriculum, The College, its system, its nature and its departments. The expected Jobs for the department,
- 2- Organizing courses, training sessions, workshops and lectures to teach students some skills and to prepare the students of the college for Exams.
- 3- Helping students solve their psychological and social problems that directly affect Academic achievement.
- 4- Coordinating with the College Guidance Unit and perform assigned tasks
- 5- Early guidance for students to register their courses of next semester and to prevent conflicts and problems and avoid them in the last semester.
- 6- Address the problems of students who fail and guide them appropriately.
- 7- Activation of the E- Counseling.

❑ Career Counseling

- 1- Helping students to discover their tendencies and abilities and to acquire the skills to search for a job that suits their qualifications and to make appropriate decisions for their future.
- 2- Preparing students to join the labor market by providing them with the required skills such as writing a proper resume - preparing for job interviews.
- 3- Creating programs and courses for students to help them start their own work and present their past experiences.
- 4- Directing students to how to develop their skills and ability during the university period to suit the labor market and the Kingdom's vision 2030.
- 5- Continuous communication with graduates who have been hired, follow-up evaluation of their job performance and benefit from their experiences.

❑ Psychological Counseling

- 1- Help the student to recognize their abilities and benefit from it to solve their problems and make the right decisions.
- 2- Amendments some wrong behaviors into correct ones.
- 3- Applying psychological tests and clinical interviews for diagnosis and psychotherapy through psychological sessions and converting some cases that need psychiatric treatment.
- 4- Supporting the student to restore psychological balance due to the occurrence of social and cultural changes, scientific and technological advances and means of communication It has changed many values and trends.
- 5- Counseling and psychological support to control the fear, anxiety and frustration that dominates the student due to the transition from one stage to another, and then the transition from study to work.
- 6- Helping the student to understand him to be able to choose the appropriate career for them and their scientific and practical abilities so that the student succeeds in his work and achieves satisfaction and proper compatibility.
- 7- Contributing to solving problems resulting from family change, such as housing, marriage and family planning problems, in addition to solving work problems

Students Services (academic, career, psychological and social)

❑ Psychological Counseling

- 1- Follow-up of students who have failed to study due to social conditions.
- 2- Enable students to adapt and overcome social problems by providing social counseling services.
- 3- Study cases of students who are eligible for financial aid.
- 4- Enabling the student to build social relationships with colleagues and faculty members.
- 5- Enhancing the university student's role in community service.
- 6- Enhancing students with special needs at the university to achieve the principles of self-independence and social equality.
- 7- Promote the principles of religion and patriotism.

➤ [Academic Advising and Counselling Guide at College of Science](#)

Facilities and equipment

❖ Libraries

ju.edu.sa جامعة الجوف

❖ Medical facilities

The university has a medical center servicing all the university staff, employers and students. The center is equipped with all the necessary medical facilities.

❖ Student's Guide to learning Blackboard

https://drive.google.com/file/d/1MLMfkpimS_4_BDa_0MYDO1CyU5pYrUT/view?usp=drivesdk

❖ Laboratories and Classrooms

The BSc. Physics has an appropriate number of laboratories, classrooms and services facilities quipped with the latest teaching aids such as computers, display screens and various experiments to serve the educational process, in accordance with the general policy of Jouf University and its statement as follows:

Male section	Number of classrooms	5
	Number of laboratories	13
	Number of praying rooms	2
	Number of electronic vending devices	2
	Electronic devices for student services	1
	Sports hall	1
	college theater	1
	Meeting Room	1
Female section	Number of classrooms	7
	Number of laboratories	8
	Number of electronic vending devices	2
	Electronic devices for student services	1
	Sports hall	1
	college theater	1
	Meeting Room	1



Male Section Labs



Male Section Labs



Male Section Classrooms



Male Section Classrooms



Female Section



Female Section



Female Section Classrooms



Female Section Classrooms



Collage of Science
Physics department
Physics Program



كلية العلوم
College of Science

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