



Umm Al-Qura University
Faculty of Applied Science
Physics Department

Student Academic Guide

2017-2018

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Umm Al-Qura University

The University of Umm Al-Qura was established in 1981 by the royal decree number 39 on 30/7/1981 . During the first decade of the fifteenth Hجري century the Colleges of Da'wa (Call to Islam), Arabic Language, Applied Sciences, Social Sciences, Engineering and Islamic Architecture were established, beside the College of Education. By the establishment of the College of Medicine and Medical Sciences in 1997 in Makkah. The University offers the Bachelors, Graduate Diplomas, Masters and Ph.D degrees in Islamic Studies, Arabic Language, Education, Social Sciences, Applied Sciences, Medicine and Engineering. In 1986 the Custodian of the Two Holy Mosques laid the foundation stone of Al-'Abdiyah campus to continue the university's educational progress in Makkah and meet the rising demand of the increasing numbers of students. In 1995 the College of Shari'a and Islamic studies, the College of Applied Science, the College of Arabic Language and the College of Engineering and Islamic Architecture began the gradual move to the new campus of Al-'Abdiyah campus, followed by the College of Medicine and Medical Studies which was established by a royal decree in 1997. Currently, there are three campuses in Makkah (In Aziziyah, In Al-Zahir, housing the Deanship of Girls Undergraduate Studies and In Al-'Abdiyah). Umm Al-Qura university gives a special attention to research and publication and community service. The University is playing a significant role in these fields.

The College of Applied Sciences

College of Applied Sciences is the first scientific college at Umm Al-Qura University. The college was established in 1401 A.H. and includes four departments (Physics, Mathematics, Chemistry and Biology). The college departments award Bachelor's and Master's degrees and also the departments of Chemistry and Biology award the Ph.D. degree. The College of Applied Sciences has taken further steps to enhance its scientific programs and lab as well as research facilities. It now has over 60 laboratories as well as an interactive training centre that is concerned with giving students the opportunity to train at governmental sectors and private sector establishments. Amplifying scientific programs, particularly those dedicated to serve the society as well as introducing new Ph.D. programs to the departments of Mathematics and Physics; and Starting new departments (e.g. the Department of Environmental Studies) and

centres of distinction as well as creating different academic posts of specialization in tandem with a number of international research centres.

Department of Physics

The physics department is one of the oldest departments in the Faculty of Science and has been established with a number of other departments (Mathematics, Chemistry and Biology) in 1401 A.H. Department of physics developed a comprehensive and includes research groups enriched research and contributed to the renaissance of this country. Many factories and companies contribute with faculty member as advisers. The department requires a student's successful fulfilment of 142 credit hours in eight levels, each ranging from 9 to 22 credit hours, for four years of study. The vision of the department is to be a pioneer in physics, medical physics and their application at the local and international. Highly distinguished education and creative research to serve society and contribute toward knowledge based economy, creative and scientific research. The message of the department is to be a creation and discrimination in higher education and scientific research in physics and medical physics and graduate students with high scientific and technical skills and contribute to the development of society. The objectives of the department are achieving leadership in higher education, scientific research and community service. Raise the level of graduates through total quality standards. Preparation of development and innovative educational programs that qualify graduates to keep up with the demands of the knowledge society and the work market. Provide students with the basic knowledge and skills in the field of physics and medical physics. Enhance scientific research and professional skills of the researchers to contribute the scientific research and its applications. Serving society through effective partnership. Partnerships with research centers and universities in the world. Attract distinguished scientific and administrative

MISSION, GOALS AND OBJECTIVES

Vision

Achieving pioneering in pure and medical physics at local and international level, and creating active partnership with community organizations.

Mission

Realizing creativity and distinction in higher education and scientific research in the field of pure and medical physics. The mission is to prepare graduates with high scientific and technical skills who are capable of serving and developing the community.

Objectives

- 1- Achieving pioneering in higher education, scientific research and community services.
- 2- Upgrading graduates' standard through application of total quality measures.
- 3- Preparation of innovative educational programs that qualify graduates who can adequately respond to the community needs and the labor market.
- 4- Providing students with essential knowledge and skills in the field of pure and medical physics.
- 5- Promoting scientific research and qualifying professional researchers to participate in conducting distinguished scientific research.
- 6- Serving community organization through establishing smart partnership.
- 7- Establishing smart partnership with research centers and distinguished international universities.
- 8- Attracting highly qualified scientific Cadre and distinguished administrative caliber.

List the courses that are granted into the program.

(Credit hours 130h)

Level 1 : Credit Hours 16					
Course		Hours		Prerequisite	
Code	Title	L	P	Code	Title
4041101-4	Calculus	4	-		
4021101-4	General Chemistry	3	1		
7004101-4	English Language	4	-		
605101-2	The Holy Qura'an (1)	2	-		
601101-2	Islamic Culture (1)	2	-		

Level 2 : Credit Hours 16					
Course		Hours		Prerequisite	
Code	Title	L	P	Code	Title
4041101-4	General Biology	3	1		
4031101-4	General Physics	3	1		
7004102-4	English Language	4	-	7004101-4	English Language
501101-2	Arabic Language	2	-		
102101-2	Biography of prophet Mohamed (PBUH)	2	-		

Level 3 : Credit Hours 16					
Course		Hours		Prerequisite	
Code	Title	L	P	Code	Title
4042501-4	Differentiation and Integration	4	-	4041101-4	Calculus
4042402-4	Linear Algebra	4	-	4041101-4	Calculus
4032102-4	General Physics (2)	3	1	4031101-4	General Physics
4032121-4	Electricity and magnetism	3	1	4031101-4	General Physics

Level 4 : Credit Hours 17					
Course		Hours		Prerequisite	
Code	Title	L	P	Code	Title
4032141-4	Theoretical Methods in Physics (1)	4	-	4042501-4	Differentiation and Integration
4032131-4	Optics	3	1	4032102-4	General Physics (2)
4032150-4	Modern Physics	3	1	4032102-4	General Physics (2)
4032122-3	General Physics(3)	2	1	4032121-4	Electricity and magnetism

601201-2	Islamic Culture (2)	2	-	601101-2	Islamic Culture (1)
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Level 5 : Credit Hours 17

Course		Hours		Prerequisite	
Code	Title	L	P	Code	Title
4033142-4	Theoretical Methods in Physics (2)	4	-	4032141-4	Theoretical Methods in Physics (1)
4033143-4	Classical Mechanics(1)	4	-	4032102-4	General Physics (2)
4033145-4	Quantum Mechanics (1)	4	-	4032141-4	Theoretical Methods in Physics (1)
4033110-3	Heat and Thermodynamics	3	-	4032102-4	General Physics (2)
605201-2	The Holy Qura'an (2)	2	-	605101-2	The Holy Qura'an (1)

Level 6 : Credit Hours 16

Course		Hours		Prerequisite	
Code	Title	L	P	Code	Title
4033132-3	Electromagnetism (1)	3	-	4032141-4	Theoretical Methods in Physics (1)
4033146-3	Quantum Mechanics (2)	3	-	4033145-4	Quantum Mechanics (1)
4033111-3	Statistical Thermodynamics	3	-	4033110-3	Heat and Thermodynamics
4033144-2	Classical Mechanics (2)	2	-	4033143-4	Classical Mechanics(1)
605301-2	The Holy Qura'an (3)	2	-	605201-2	The Holy Qura'an (2)
601301-3	Islamic Culture (3)	3	-	601201-2	Islamic Culture (2)

Level 7 : Credit Hours 16

Course		Hours		Prerequisite	
Code	Title	L	P	Code	Title
4034133-3	Electromagnetism (2)	3	-	4033132-3	Electromagnetism (1)
4034160-4	Nuclear Physics	3	1	4033145-4	Quantum Mechanics (1)
4034170-4	Solid State Physics (1)	4	-	4033145-4	Quantum Mechanics (1)
4034180-3	Computational Physics	2	1	4043142-4	Theoretical Methods in Physics (2)
605401-2	The Holy Qura'an (4)	2	-	605301-2	The Holy Qura'an (3)

Level 8 : Credit Hours 16

Course		Hours		Prerequisite	
Code	Title	L	P	Code	Title
4034162-3	Radiation Physics	3	-	4034160-4	Nuclear Physics

4034172-4	Solid State Physics (2)	3	1	4034170-4	Solid State Physics (1)
4034173-4	Electronics	3	1	4034170-4	Solid State Physics (1)
4034199-3	Graduated Project	3	-		Agreement of Department
601401-2	Islamic Culture (4)	2	-	601301-3	Islamic Culture (3)

Preparation of Graduates

- Graduation of outstanding physicist who is knowledgeable, skilled, professional and who demonstrate excellence in creative thinking, prevention and management of handicap.
- Preparation of graduates for not only perform their professional role in patient care, but also to provide leadership for the profession, contribute to the growth of the profession, and contribute to the health care needs of society.
 - Engagement in lifelong academic and professional development through self-assessment, reflection, education, and feedback from others.

Rules and Regulation

- Rules and regulation governing the responsibilities and rights of the student and followers are clearly defined in the university rules and regulation booklets (available to all on line - on UQU official site or printed) <https://uqu.edu.sa>

The physics program

- 1- The physics program is regarded as an integral package of courses (theoretical, experimental and project) in the field of physics leading to a qualification titled bachelor of physics
- 2- Physics program is a program that is designed to provide students with the high levels of knowledge and skill required for professional occupations.
- 3- It is also necessary to point out that while learning outcomes-setting, student special attributes and characteristics established by program, faculty and university were included such as :-
 - ✓ Excellence in learning, practice , research and continuous improvement of performance in these areas.

- ✓ The ability to recall and apply their knowledge in their personal and professional lives for many years after they graduate not just being passed tests and assignments.
 - ✓ Recognize the provisional nature of knowledge field and take this into account in investigating and proposing solutions to academic or professional issues
 - ✓ The ability to behave sensitively, transparency responsibly , and ethically in difficult situations
 - ✓ The ability to work in a spirit of teamwork and appreciation of differences.
 - ✓ The ability to take initiative in identifying and resolving problems and issues both at the individual and group levels, exercising leadership in pursuit of innovative and practical solutions .
 - ✓ The ability to apply the theoretical insights and methods of inquiry from their field of study in considering issues and problems in other contexts.
 - ✓ The continuity to extend their knowledge through habits of lifelong learning
 - ✓ Considering honesty, justice, Caring, Compassion, credibility, empathy and mutual respect in providing services to patients.
- 4- Teaching staff are available at sufficient times for consultation and advice to student through a declared scheduled for office hours adopted in department councils. This matter has been proved by the minutes of the frequent meetings of staff members with students and also in accompanied attendance sheets for these meetings
- 5- Teaching resources are sufficient to large extent to ensure achievement of the intended learning outcomes. This evidence by:
- ✓ The availability of classrooms, staffing, seat, lighting, aeration and air conditioning and time table for their maintenance.
 - ✓ The availability of learning laboratories in the department which are will equipped with teaching and learning audio-visual aids.
 - ✓ The labs are also equipped with assessment equipment in sufficient number for student training.
 - ✓ The availability of teaching and learning aids such as and /or visual equipment, models, educational media and CDs and simulation tools.
 - ✓ The availability of the special field in the project.

- ✓ The presence of the King Abdallah university library, Faculty of Science library and Physics departments library.
 - ✓ The university's subscription in many of well-known universal information bases and in many well reputed scientific sites and magazines in the field of specialization to provide an opportunity for students to see and use what is new in the physics field in their learning activates.
- 6- Some appropriate preparatory and orientation mechanisms are provided to prepare students for study in higher education environment as the preparatory year and the involved courses concerned with the education of English language and other learning skills.
- 7- Systems are in place within the program for monitoring and coordinating student workload such as:
- ✓ Equally distribution of taught courses on the educational semesters. This matter in order to monitoring, equally distribute and coordinate the educational burdens or work load of the students through the different courses and semesters, as shown in the department study palm and its compliance with the minimum and maximum teaching units for each semester and each year as defined by the National Qualifications Framework.
 - ✓ The curriculum and courses development committee in the program periodically reviewed the taught topics in each course to avoid its duplication and subsequent increase in the student educational burdens (workload).
- 8- Student surveys and their opinions and satisfaction about their workload.
- 9- Student portfolio for each course and the included learning and educational activities and assignments. These activities were continuously revised and evaluated by the department staff who provide students the feedback about their performance
- ✓ Feedback on performance by students and results of assessments are given promptly to students.
 - ✓ Each student has his own university email address through which guidance and instructions from different university departments such as from department, college and deanship of student affairs have been sent to him.
 - ✓ The final results for all courses and some periodic courses have been declared for all students through their university sites. Students can access easily to know these results by using their passwords.

Processes for Educational Assistance for Students

- Teaching staff are available at sufficient times for consultation and advice to students through a declared scheduled for office hours adopted in department councils.
- Teaching resources are sufficient to large extent to ensure achievement for the extended learning outcomes
- The availability of classrooms, staffing, safety of seats, lighting, aeration and air conditioning and time table for their maintenance.
- The availability of learning laboratories in the department which are well equipped with teaching and learning audio-visual aids
- The labs are also well equipped with assessments and equipment in a sufficient numbers for student training. The maintain contracts for their safety and periodic follow up have been signed with a well-known companies in this fields.
- The availability of teaching and learning aids such as audio and /or visual equipment, models, educational media and CDs and simulation tools.
- The availability of the special field in the project.
- The presence of the King Abdallah university library, Faculty of Science library and Physics departments library.
- The university's subscription in many of well-known universal information bases and in many well reputed scientific sites and magazines in the field of specialization to provide an opportunity for students to see and use what is new in the physics field in their learning activates.
- Each student has his own university email address through which guidance and instructions from different university departments such as from department, college and deanship of student affairs have been sent to him.
- The final results for all courses and some periodic courses have been declared for all students through their university sites. Students can access easily to know these results by using their passwords.
- deanship of information technology and deanship of E & distance learning (such as active learning — cooperative learning & - E-learning

Qualification and Experience of Teaching Staff.

- All members of the department staff have good moral character and reputation, scientific and practical efficiency and working with the spirit of teamwork evidenced by the appreciation of the faculty board for the department staff and the positive feedback from the student report in course surveys.
- Teaching staff members have appropriate qualifications and experience for the courses they teach.
- Most of teaching staff members are working full-time.
- All members of the department staff have good moral character and reputation, scientific and practical efficiency and working with the spirit of teamwork evidenced by the appreciation of the faculty board for the department staff and the positive feedback from the student report in course surveys.
- Most members of the department staff participate in research activities in the fields of study they teach and also involve their students in these activities. students and their supervisors
- Teaching staff have the appropriate qualifications and experiences for teaching the courses that they teach.
- All the members teaching staff are working a full-time.
- All members of the department staff have good moral character and reputation, scientific and practical efficiency and working with the spirit of teamwork. This is evidenced by the appreciation of the faculty board for the department staff and the positive feedback from the student report in course surveys.
- All the members teaching staff are involved on a continuing basis in scholarly activities that ensure they remain up to date with the latest developments in their field and can involve their students in learning that incorporates those developments.
- The academic staff in the department have a high degree of professionalism, experience and high skilled in the general and specific area of specialization.

- Ratio of the number of courses taught by staff of the department, who is working full-time, to that taught by members from outside the department, indicates that the percentage is 100%.

List of teaching staff

No.	Name	Academic position	Academic degree
1.	Isam Hamed Mohamad Al_Ahdal	Prof.	Ph.D
2.	Fayz Hmad Hmood Al-Ghorabie	Prof.	Ph.D
3.	Khaled Abdul_Waged Mohamad Abdul_Lateef	Prof.	Ph.D
4.	Roshdi Saudi Mohamad Awad	Prof.	Ph.D
5.	Sameer Solyman Ahmad Natto	Prof.	Ph.D
6.	Saud Hameed Ahmad Al_ahyani	Prof.	Ph.D
7.	Yosry Mohamad Eid Moustafa	Prof.	Ph.D
8.	Adel Mohamad Al_Hashemi Al_Madani	Prof.	Ph.D
9.	Mohamad mahmod Sabri Salah El_Deen Mohamad	Prof.	Ph.D
10.	Abdul_Rahman Yosef Mohamad Lasheen	Assoc. Prof.	Ph.D
11.	Ahmad Mohamad El_Hady Abdul_Ghafa Abdul_Ati	Assoc. Prof.	Ph.D
12.	Fatma El-Sayed Mahrous Othman	Assoc. Prof.	Ph.D
13.	Said Mohamad Mohamad Attia	Assoc. Prof.	Ph.D
14.	Waleed Gameel Ahmad Altaf	Assoc. Prof.	Ph.D
15.	Abdul_Mageed Omr Ali Tayomi	Ass. Prof.	Ph.D
16.	Afaf Moawad Abdul_Mageed Ali	Ass. Prof.	Ph.D
17.	Al_Hussieny Al_Taher Mahdy Mohamed	Ass. Prof.	Ph.D
18.	Al_Mongy Al_Sasi Omar Binmos	Ass. Prof.	Ph.D
19.	Ali Saleh Aal_Sharaa Al_Shamrani	Ass. Prof.	Ph. D
20.	Amani Ibrahim Saleh Al-Alawi	Ass. Prof.	Ph.D
21.	Ameena Naif Mohamad Al_Ahmadi	Ass. Prof.	Ph.D
22.	Atif Ismale El-Hasaneen	Ass. Prof.	Ph.D
23.	Badee Abd-Elhaleem Awiess	Ass. Prof.	Ph.D

No.	Name	Academic position	Academic degree
24.	Doaa Abdul_Illah sayed Mahmood	Ass. Prof.	Ph.D
25.	Fahad Abdullah Shokr Al_Hashemi	Ass. Prof.	Ph.D
26.	Galal El_Naser El_Hady Al_Wafalyi	Ass. Prof.	Ph.D
27.	Hanan Hosien Ebraheem Amer	Ass. Prof.	Ph.D
28.	Hosam Salah El_Deen Mohamad Ebraheem	Ass. Prof.	Ph.D
29.	Kahled Al-Thqafi	Ass. Prof.	Ph.D
30.	Mehrz Al_Sheryani Mohamad Lolo	Ass. Prof.	Ph.D
31.	Mohamad Omar Boustimi	Ass. Prof.	Ph.D
32.	Mohamad Khalel Mohamad Al_Turkestani	Ass. Prof.	Ph.D
33.	Mona Abd El-Khalek Mohaseeb	Ass. Prof.	Ph.D.
34.	Noha Abd El-Haleem Filmban	Ass. Prof.	Ph.D
35.	Rabab Khaled Mohamad Sendi	Ass. Prof.	Ph.D
36.	Ramadan Ali Hasan Ali	Ass. Prof.	Ph.D
37.	Saleh Marzook Berki Al_Lokmani	Ass. Prof.	Ph.D
38.	Taha Mohamad Taha Al_Fawaal	Ass. Prof.	Ph.D
39.	Tasneem Malak Mohamad Deen Azeem	Ass. Prof.	Ph.D
40.	Thamer Salman Faleh Al_Omeery	Ass. Prof.	Ph.D
41.	Waleed Blkasem Al_Ekreml Balhag	Ass. Prof.	Ph.D
42.	Zaynab Solyman Ali Matter	Ass. Prof.	Ph.D
43.	Ahmad Makbool Mohamad Hekami	Ass. Prof.	Ph.D
44.	Ahmad Mohamed Abd-ElHadi Saidi	Lecturer	MSc.
45.	Efat Abdul_Allah Ali Ali Rashed	Lecturer	MSc.
46.	Imtenan Tallal Al-Utabi	Lecturer	MSc.
47.	Fayza Abdul_Kader Hasan Agag	Lecturer	MSc.
48.	Ghada Abd-Elrahman Kheder Mobark	Lecturer	BSc.
49.	Hend Abdul_Aziz Ahmad Al_Hagagi	Lecturer	MSc.
50.	Hoda Gowybr Aneez Al_Salmi	Lecturer	MSc.
51.	Mashaal Saud El-Harbi	Lecturer	MSc.

No.	Name	Academic position	Academic degree
52.	Mohamad Owaid Fahd Al_Omary	Lecturer	MSc.
53.	Noha Farag Mohamad Abdullah Al_Harbi	Lecturer	MSc.
54.	Reem Abdul-Aziz Al-Theqafee	Lecturer	MSc.
55.	Samr Mohamad Sadoon Al_Selmi	Lecturer	MSc.
56.	Turky Othman Hameed Al_Maatani	Lecturer	MSc.
57.	Abdul_Rahman Masood Daif Allah Al_Oteebi	Demonstrator	MSc.
58.	Abeer Ahmad Abdullah Al_Sreehi	Demonstrator	MSc.
59.	Amal Ibrahim Al-Saadii	Demonstrator	BSc.
60.	Anas Alaa Asad Mohder	Demonstrator	BSc.
61.	Arwa Mohamad Abdul_Hakeem Bokhari	Demonstrator	MSc.
62.	Asmhan Saud Ali Al_Shekhi	Demonstrator	BSc.
63.	Balsam Fahd Ebraheem Soofi	Demonstrator	BSc.
64.	Banan Bahawarith	Demonstrator	BSc.
65.	Danya Abdul_Rehem Meki Sendi	Demonstrator	BSc.
66.	Ebthal Mastoor Khedr Al_Thebeti	Demonstrator	BSc.
67.	Eman Abdul_Baset Gaber Madkhli	Demonstrator	BSc.
68.	Eman Ahmad Abdul_Raheem Bokhari	Demonstrator	BSc.
69.	Fadia AbdElaziz Abdullha Ibrahim	Demonstrator	BSc.
70.	Hanan Aish Zamel Al-Utabi	Demonstrator	MSc.
71.	Hoda Ahmad Abdullah Al_Allawi	Demonstrator	BSc.
72.	Mohamad Abdul_Aziz Mohamad Sedeeq Kutb	Demonstrator	BSc.
73.	Naser alian El-Hazmi	Demonstrator	BSc.
74.	Noor Mahmud Mohamad Abdullah Basafr	Demonstrator	MSc..
75.	Omaima Abdul_Illah Abdul_Raheem Bawazeer	Demonstrator	BSc.

List of technicians staff

No.	Technician	Qulifications	Campus
1	Jar Allah Saeed Al-Tawili	Diploma of Minute Labs	Al-abdia
2	Mazen Mohamed Omar Bashraf	BSc. of Chemistry	Al-abdia
3	Yousef Ahmed Alassmari	Technical college in Electronics	Al-abdia
4	Mohamed Abdullah Omar Mirah	Diploma of Optics	Al-abdia
5	Mazen Mohsen Malkan Al-Jawi	Diploma of Optics	Al-abdia
6	Jameel Ahmed Hameed Alhazmi	BSc. of Physics	Al-abdia
7	Hussein Hasen Althebyani	BSc. of Physics	Al-abdia
8	Maher Abdullah Al-Kasim	BSc. of Physics	Al-abdia
9	Hussein Ali Al-Hashmi	BSc. of Physics	Al-abdia
10	Alaa Abdularahman Alsubaie	BSc. of Physics	Al-abdia
11	Yaser Mohammed Bahashwan	BSc. of Physics	Al-abdia
12	Raad Fouad Flimban	BSc. of Physics	Al-abdia
13	Abdelrahman Khalid Sendi	BSc. of Physics	Al-abdia
14	Rakan Saled Althaqafi	BSc. of Physics	Al-abdia
15	Maysoon Rashed Albalbesi	BSc. of Physics	Al-zahir
16	Darien Abdullah ajaj	BSc. of Biology	Al-zahir
17	Zakia Mohsen Al-Kathiri	Diploma of laboratories	Al-zahir
18	Fatma Shafi Al-Hoqbani	BSc. of Physics	Al-zahir
19	Maatoka Mohamed Salem	Diploma of laboratories	Al-zahir
20	Israa Abdulghafour Obied	BSc. of computer science	Al-zahir
21	Wadha Farag Alotaibi	BSc. of Physics	Al-zahir
22	Suha Abdullah Khan	MSc. of Medical Physics	Al-zahir
23	Nagwa Alotaibi	BSc. of Medical Physics	Al-zahir
24	Mona almohyawee	BSc. of Physics	Al-zahir
25	Eman Elofee	BSc. of Physics	Al-zahir

Teaching resources

- Teaching resources are sufficient to large extent to support teaching and learning process and ensure achievement of the intended learning outcomes. This evidenced by:
- The availability of classrooms, staffing, seats, lighting, aeration and air conditioning with time table for their maintenance.
- The availability of learning laboratories in the department which are well equipped with teaching & learning audio-visual aids.
- The labs are also well equipped with assessment equipment in a sufficient numbers for student training. The maintenance contracts for their safety and periodic follow up have been signed with a well-known companies in this field.
- The availability of teaching & learning aids such as audio and /or visual equipment, models, educational media & CDs and simulation tools.
- The subscription in many of well-known universal information bases and in many well reputed scientific sites and magazines in the field of specialization to provide an opportunity for students to see and use what 's new in the rehabilitation field in their learning activities
- Ready access to on-line data-bases and research and journal.
- King Abdallah library frequently organizes training courses and workshops for ail teaching staff and students ail over the university to kept them informed about library services, regulation of the library controlling the process of borrowing books, different database that university joint and how to access to them and any other changes in services.

Facilities and Equipment

- Facilities at the College of Applied Science including Department of Physics include sufficient space and state of the technology which allow faculty to deliver effective and efficient learning-centred teaching through a variety of instructional methods and approaches in a conducive learning environment, while good use of these facilities and

equipment enable students to take responsibility for their own learning. The use of these facilities and equipment are assessed regularly in terms of their suitability for all stakeholders, i.e. students, faculty and staff.

- Several major improvements have been undertaken in terms of the quality and adequacy of the facilities and equipment in Physics Department, the College and the University as a whole. These enhancements include: the introduction of smart classrooms and the provision of new and upgraded computer laboratories; Internet bandwidth and wireless coverage have also been improved. Furthermore, fully equipped specific labs for each field of physics have been established in the College of Science
- The physics department provides quality of the facilities and equipment from the main users.(Aabdiya campus for male-student and Alzaher campus for female-student) stated that classroom including halls, laboratories are attractive and comfortable.