

Al-Farahidi University



First Cycle – bachelor's degree (B.Sc.) –

Medical Physics



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1. Overview

الرؤية :

أنشاء قسم علمي تخصصي وفق المتقدمة محلياً و دولياً أنشاء قسم علمي تخصصي وفقاً للمعايير مؤهل بمناهج حديثة مستندة الى تجارب محلية و عالمية تلبى حاجات سوق العمل في القطاعين العام و الخاص.

الرسالة :

رغد المجتمع بكوادر متخصصة مزودة بخبرات علمية و مهارات متطورة في مجال الفحص و التشخيص و توفير البيئة التعليمية الأكاديمية المناسبة لأكساب العالمين في هذا الحقل المعرفة اللازمة في التعامل مع التقنيات و الأدوات الحديثة المعتمد في الجانب الطبي .

الأهداف :

أعتماد مسار بولونيا كنظام دراسي يهدف الى :

- اعداد كوادر متميزة في الأختصاص قادر على رفع مستوى الأداء الطبي و التعامل مع التقنيات الحديثة في المجال الصحي .

- رغد سوق العمل بمتخصصين في تقديم الخدمات الطبية الساندة في مجال التشخيص و العلاج بجودة عالية.

- تأهيل كوادر قادرة على توظيف مهاراتها العلمية و العملية في تطوير البحث العلمي الصحي الميداني و التعامل مع أجهزة الفحص الطبي بكفاءة عالية من خلال أكسبهم أحدث الخبرات التقنية.

2. Undergraduate Courses 2023-2024

Module 1

| Code | Course/Module Title | ECTS | Semester |
|--|------------------------|---------------|-------------|
| SCI1104 | Biology | 7 | 1 |
| Class (hr/w) | Lect/Lab./Prac. /Tutor | SSWL (hr/sem) | USWL (hr/w) |
| 2 | 2 | 78 | 97 |
| Description | | | |
| . Give a general understanding of the types, divisions, and components of organisms. 2. Understand the | | | |

effect of organisms on humans and their environments. 3. Gain practical knowledge of the classification of organisms 4. Complete the reports, seminars, and presentations to develop the student's skills.

Module 2

| Code | Course/Module Title | ECTS | Semester |
|--|-----------------------|---------------|-------------|
| SCI 1105 | Chemistry | 7 | 1 |
| Class (hr/w) | Lect/Lab./Prac./Tutor | SSWL (hr/sem) | USWL (hr/w) |
| 2 | 2 | 78 | 97 |
| Description | | | |
| <p>1-To develop skills and understanding of different types of elements through the application of techniques. 2. To understand metals, physical and chemical properties. 3. This course deals with the basic concept of general chemistry. 4. To understand periodic table and distribution elements on it including learning activities which are 'research-like'. Activities should, of course, motivate and encourage deep learning (reflection on wider meanings, rather than superficial</p> | | | |

Module 3

| Code | Course/Module Title | ECTS | Semester |
|---|-----------------------|---------------|-------------|
| KUS1101 | Mathematical | 5 | 1 |
| Class (hr/w) | Lect/Lab./Prac./Tutor | SSWL (hr/sem) | USWL (hr/w) |
| 2 | 1 | 63 | 62 |
| Description | | | |
| <ol style="list-style-type: none"> 1. Identify the properties of mathematical functions and their opposites. 2. Familiarity with the properties of polynomials, exponential and logarithmic functions, trigonometric functions and their opposites. 3. Recognize the concept of differential functions and its relationship to speed and the rate of their change with time (acceleration). 4. Identify the integration of the functions and methods of Integration. 5. Knowledge of applications of integral in geometry. | | | |

Module 4

| Code | Course/Module Title | ECTS | Semester |
|---------|---------------------------|------|----------|
| KUS1102 | Democracy and human right | 2 | 1 |

| Class (hr/w) | Lect/Lab./Prac./Tutor | SSWL (hr/sem) | USWL (hr/w) |
|--|-----------------------|---------------|-------------|
| 2 | 1 | 33 | 17 |
| Description | | | |
| تهدف المادة الى بيان أهمية الحقوق الاصلية للصيقة بالإنسان , التي تتفق مع فطرته والتي يقبلها العقل المجرد , والتي لا تختلف باختلاف الزمان والمكان وهذه هي حقوق الانسان. | | | |

Module 5

| Code | Course/Module Title | ECTS | Semester |
|---|------------------------|---------------|-------------|
| MPH1106 | Electricity | 6 | 1 |
| Class (hr/w) | Lect/Lab./Prac. /Tutor | SSWL (hr/sem) | USWL (hr/w) |
| 2 | 2 | 63 | 87 |
| Description | | | |
| The study of electric charge involves differentiating between conductors and insulators and using them to demonstrate the existence of charges. In addition, Coulomb's law will be stated and its expression derived and used in calculations. Along with this, electric field, dipole moments; potential energy; and torque on an electric dipole and flux of electric field will be defined. Their expressions will be derived and also used to solve problems. | | | |

Module 6

| Code | Course/Module Title | ECTS | Semester |
|---|---------------------------------|---------------|-------------|
| FOR1105 | Fundamental of Computer Science | 3 | 1 |
| Class (hr/w) | Lect/Lab./Prac. /Tutor | SSWL (hr/sem) | USWL (hr/w) |
| 1 | 4 | 48 | 27 |
| Description | | | |
| The computer course includes in the theoretical side the basics of computers, as well as a brief historical summary on the development and generations of computers also Computer Types. A detailed explanation of the Computer Components (Hardware and Software); addition to the student's definition of Numbers Systems (Decimal & Binary); the last axis comes about introducing the student to the Internet and the Intranet. As for the practical side, the student is taught the ready-made basic programs that include Microsoft Office and the Windows operating system, as the course includes practical hours, so the most important output is the student's mastery in dealing with the calculator as an easy tool to work with. | | | |

Contact

Program Manager:

Auday Khudaier Azawy | Ph.D. in physics | Lecturer.

Email: azawy1974@mail.ru

Mobile no: +9647715521151

Program Coordinator:

Abdullah Mohammed Hamad | MS.D. in Computer | Lecturer.

Email: hyik72@gmail.com

Mobile no: +9647714710842