



Republic of Iraq - Ministry of Higher Education and Scientific Research
 University of Anbar
 Bachelor's degree in Medical Physics Science (First cycle)
 Four years (Eight semesters) - 242 ECTS credits - 1 ECTS = 25 hr
 Program Curriculum (2023 - 2024)

جمهورية العراق - وزارة التعليم العالي والبحث العلمي
 جامعة الانبار
 بكالوريوس علوم فيزياء طبية (الدورة الأولى)
 أربع سنوات (ثمانية فصول دراسية) - 242 وحدة ائتمانية - كل وحدة ائتمانية = 25 ساعة
 المنهاج الدراسي للعام 2023-2024



| Level | Semester | 1 | Module Code | Module Name in English | اسم المادة الدراسية | Language | SSWL (hr/w) | | | | | | Exam hr/sem | SSWL hr/sem | USSW L hr/sem | SWL hr/sem | ECTS | Module Type | Prerequisite Module(s) Code |
|-------|----------|---|-------------|------------------------------------|----------------------------|----------|-------------|-------------|------------|-----------|------------|-------------|-------------|-------------|---------------|------------|-------|-------------|-----------------------------|
| | | | | | | | CL (hr/w) | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) | | | | | | | |
| UGI | One | 1 | MPH 1101 | Mechanics1 | ميكانيك 1 | English | 2 | | 2 | | | | 4 | 75 | 100 | 175 | 7.00 | C | |
| | | 2 | MPH 1102 | Electricity and Magnetism | كهربية ومغناطيسية | English | 2 | | 2 | | | | 4 | 75 | 100 | 175 | 7.00 | C | |
| | | 3 | COS 1103 | Mathematics | رياضيات | English | 3 | | | | 1 | | 3 | 60 | 90 | 150 | 6.00 | B | |
| | | 4 | UOA 001 | Arabic | لغة عربية | Arabic | 2 | | | | | | 3 | 30 | 17 | 50 | 2.00 | S | |
| | | 5 | UOA 005 | Democracy and human rights | الديموقراطية وحقوق الانسان | Arabic | 2 | | | | | | 3 | 30 | 17 | 50 | 2.00 | S | |
| | | 6 | COS 1106 | Analytic Chemistry | كيمياء تحليلية | English | 2 | | 2 | | 1 | | 3 | 60 | 90 | 150 | 6.00 | B | |
| Total | | | | | | | 13 | 0 | 6 | 0 | 2 | 0 | 20 | 330 | 414 | 750 | 30.00 | | |
| UGI | Two | 1 | MPH 1217 | Mechanics 2 | ميكانيك 2 | English | 2 | | 2 | | | 4 | 60 | 90 | 150 | 6.00 | C | MPH 1101 | |
| | | 2 | MPH 1208 | Biophysics | فيزياء حيائية | English | 2 | | 2 | | | 4 | 60 | 90 | 150 | 6.00 | C | | |
| | | 3 | COS 1209 | General Biology | احياء عام | English | 2 | | 2 | | | 4 | 60 | 65 | 125 | 5.00 | B | | |
| | | 4 | UOD 12010 | Computer Science | علم الحاسوب | English | 2 | | 2 | | | 4 | 30 | 70 | 100 | 4.00 | B | | |
| | | 5 | UOA 003 | English 1 | اللغة انجليزية 1 | English | 2 | | | | | 3 | 30 | 17 | 50 | 2.00 | S | | |
| | | 6 | COS 12012 | Organic Chemistry | كيمياء عضوية | English | 2 | | 2 | | | 3 | 60 | 65 | 125 | 5.00 | B | | |
| Total | | | | | | | 10 | 0 | 10 | 0 | 0 | 0 | 22 | 300 | 397 | 700 | 28.00 | | |
| UGII | Three | 1 | MPH 21013 | Heat and Thermodynamic | حرارة وثرمودينمك | English | 2 | | 2 | | | 4 | 60 | 65 | 125 | 5.00 | C | | |
| | | 2 | MPH 21014 | Optics | بصريات | English | 2 | | 2 | | | 4 | 60 | 65 | 125 | 5.00 | C | | |
| | | 3 | COS 21015 | Biostatistics | احصاء حيوي | English | 2 | | | | | 3 | 30 | 45 | 75 | 3.00 | B | | |
| | | 4 | MPH 21016 | Atomic Physics | فيزياء ذرية | English | 2 | | 2 | | | 4 | 60 | 65 | 125 | 5.00 | C | | |
| | | 5 | COS 21017 | Physiology | فسلجة | English | 2 | | 2 | | | 4 | 60 | 65 | 125 | 5.00 | B | | |
| | | 6 | MPH 21018 | Electromagnetic Waves | موجات كهرومغناطيسية | English | 2 | | | | | 3 | 60 | 65 | 125 | 5.00 | C | | |
| | | 7 | UOA006 | The Crimes of Baath regime in Iraq | جرائم نظام البعث | Arabic | 2 | | | | | 3 | 32 | 17 | 50 | 2.00 | S | | |
| Total | | | | | | | 14 | 0 | 8 | 0 | 0 | 0 | 25 | 362 | 387 | 750 | 30.00 | | |
| UGII | Four | 1 | MPH 22019 | Medical Imaging | تصوير طبي | English | 2 | | 2 | | | 4 | 60 | 115 | 175 | 7.00 | C | | |
| | | 2 | COS 22020 | Molecular Biology | بيولوجي جزيئي | English | 2 | | 2 | | | 4 | 60 | 90 | 150 | 6.00 | B | | |
| | | 3 | COS 22021 | Healthy Culture | ثقافة صحية | English | 2 | | | | | 3 | 30 | 45 | 75 | 3.00 | B | | |
| | | 4 | UOD 22022 | Computer Science 2 | علم الحاسوب 2 | English | 2 | | 2 | | | 3 | 60 | 70 | 130 | 5.20 | B | UOD 12010 | |
| | | 5 | UOD 22023 | English (2) | لغة انجليزية 2 | English | 2 | | | | | 3 | 30 | 70 | 100 | 4.00 | B | UOD 12011 | |
| | | 6 | MPH 22024 | Phonetics Science | علم الصوتيات | English | 2 | | | | | 3 | 30 | 90 | 120 | 4.80 | C | | |
| Total | | | | | | | 10 | 0 | 6 | 0 | 0 | 0 | 20 | 270 | 480 | 750 | 30.00 | | |
| Level | Semester | 5 | Module | Module Name in English | اسم المادة الدراسية | Language | SSWL (hr/w) | | | | | | Exam | SSWL | USSW | SWL | ECTS | Module | Prerequisite |

| Level | Semester | 7 | Module Code | Module Name in English | اسم المادة الدراسية | Language | SSWL (hr/w) | | | | | | Exam hr/sem | SSWL hr/sem | USSWL hr/sem | SWL hr/sem | ECTS | Module Type | Prerequisite Module(s) Code |
|-------|----------|---|-------------|---------------------------------------|----------------------------|----------|-------------|-------------|------------|-----------|------------|-------------|-------------|-------------|--------------|------------|-------|-------------|-----------------------------|
| | | | | | | | CL (hr/w) | Lect (hr/w) | Lab (hr/w) | Pr (hr/w) | Tut (hr/w) | Semn (hr/w) | | | | | | | |
| UGIII | Five | 1 | MPH 31125 | Medical Physics 1 | فيزياء طبية 1 | English | 2 | | 2 | | | | 4 | 60 | 90 | 150 | 6.00 | C | MPH 1208 |
| | | 2 | MPH 31026 | Quantum Mechanics in Medicine | ميكانيك الكم في الطب | English | 3 | | | | | | 3 | 60 | 65 | 125 | 5.00 | C | |
| | | 3 | COS 31027 | Medical Terminology | مصطلحات طبية | English | 2 | | | | | | 3 | 30 | 70 | 100 | 4.00 | B | |
| | | 4 | MPH 31128 | Physics of Diagnostic Radiology | فيزياء الاشعة التشخيصية | English | 2 | | 2 | | | | 4 | 60 | 90 | 150 | 6.00 | C | |
| | | 5 | MPH 31129 | Laser Basics | اساسيات الليزر | English | 2 | | 2 | | | | 4 | 60 | 65 | 125 | 5.00 | C | MPH 21014 |
| | | 6 | MPH 31030 | Optional 1 | اختياري 1 | English | 2 | | | | | | 3 | 30 | 70 | 100 | 4.00 | C | |
| Total | | | | | | | 13 | 0 | 6 | 0 | 0 | 0 | 21 | 300 | 450 | 750 | 30.00 | | |
| UGIII | Six | 1 | COS 32031 | Anatomy | تشريح | English | 2 | | 2 | | | 4 | 60 | 90 | 150 | 6.00 | B | | |
| | | 2 | COS 32032 | Biochemistry | الكيمياء الحياتية | English | 2 | | 2 | | | 4 | 60 | 65 | 125 | 5.00 | B | | |
| | | 3 | MPH 32033 | Physics of Nuclear Medicine | فيزياء الطب النووي | English | 2 | | 2 | | | 4 | 60 | 90 | 150 | 6.00 | C | | |
| | | 4 | MPH 32134 | Medical Laser Applications | تطبيقات الليزر الطبية | English | 2 | | 2 | | | 4 | 60 | 65 | 125 | 5.00 | C | | |
| | | 5 | UOD 32035 | English (3) | لغة انجليزية 3 | English | 2 | | | | | 3 | 30 | 70 | 100 | 4.00 | B | | |
| | | 6 | MPH 32136 | Optional 2 | اختياري 3 | English | 2 | | | | | 3 | 30 | 70 | 100 | 4.00 | C | | |
| Total | | | | | | | 12 | 0 | 8 | 0 | 0 | 0 | 22 | 300 | 450 | 750 | 30.00 | | |
| UGIII | Seven | 1 | MPH 41137 | Medical Physics 2 | فيزياء طبية 2 | English | 2 | | 2 | | | 4 | 60 | 90 | 150 | 6.00 | C | MPH 1208 | |
| | | 2 | MPH 41138 | Medical Image Processing and Analysis | تحليل ومعالجة الصور الطبية | English | 2 | | 2 | | | 4 | 60 | 65 | 125 | 5.00 | C | MPH 22019 | |
| | | 3 | MPH 41039 | Medical Instrumentation Physics | فيزياء الاجهزة الطبية | English | 2 | | 2 | | | 4 | 60 | 65 | 125 | 5.00 | C | | |
| | | 4 | MPH 41140 | Radiotherapy Physics | فيزياء العلاج الاشعاعي | English | 2 | | 2 | | | 4 | 60 | 90 | 150 | 6.00 | C | MPH 31128 | |
| | | 5 | UOD 41041 | English (4) | لغة انجليزية 4 | English | 2 | | | | | 3 | 30 | 70 | 100 | 4.00 | B | UOD 32035 | |
| | | 6 | MPH 41142 | Research project | مشروع البحث | English | 2 | | | | | 3 | 30 | 70 | 100 | 4.00 | C | | |
| Total | | | | | | | 12 | 0 | 8 | 0 | 0 | 0 | 22 | 300 | 450 | 750 | 30.0 | | |
| UGIV | Eight | 1 | MPH 42143 | Medical Physics 3 | فيزياء طبية 3 | English | 2 | | 2 | | | 4 | 60 | 90 | 150 | 6.00 | C | MPH 41137 | |
| | | 2 | Che-48144 | Neuro physics | فيزياء الاعصاب | English | 2 | | 2 | | | 4 | 60 | 90 | 150 | 6.00 | C | | |
| | | 3 | MPH 42045 | Material Science and Nanotechnology | علم المواد والنانوتكنولوجي | English | 3 | | | | | 3 | 60 | 65 | 125 | 5.00 | C | | |
| | | 4 | COS 42046 | Biomaterials | مواد حيوانية | English | 3 | | | | | 3 | 60 | 65 | 125 | 5.00 | B | | |
| | | 5 | MPH 42147 | Research Project | مشروع البحث | English | 2 | | | | | 3 | 30 | 70 | 100 | 4.00 | C | | |
| | | 6 | MPH 42048 | Optional 3 | الاختياري 3 | English | 2 | | | | | 3 | 30 | 70 | 100 | 4.00 | C | MPH 32126 | |
| Total | | | | | | | 14 | 0 | 4 | 0 | 0 | 0 | 20 | 300 | 450 | 750 | 30.0 | | |
| Total | | | | | | | 98 | 0 | 56 | 0 | 2 | 0 | 172 | 2462 | 3478 | 5950 | 238.0 | | Must be 240 ECTS |

Note: The student should complete 4 weeks of Summer Internships to fulfill the requirements of the Bachelor's degree

| Structured SWL (hr/w) type | CL | Lab | Pr | Tut | Lect | Sem | n | Module type | B | C | S | E | SWL: | SSWL: | USSWL: |
|----------------------------|----|---------------|------------|--------------------|----------|----------------|---------|-------------|---|---------------------------|------------------------|--------------------------------------|----------------------------|------------------|----------------|
| | | Class Lecture | Laboratory | Practical Training | Tutorial | Online lecture | Seminar | | | Basic learning activities | Core learning activity | Support or related learning activity | Elective learning activity | Student Workload | Structured SWL |

Note: Columns O, Q and R are progmaed, protected and should not be edited