



## **Program Guide Form**

# **Bachelor's Program in Prosthetics and Orthotics**

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**College: Med. Rehabilitation Sciences**

**Department: PROSTHETICS AND ORTHOTICS**

**Degree Awarded: BACHELOR OF SCIENCE**

## 1-1 Historical background

The College of Medical Rehabilitation Sciences was established in the year 1434 AH with the aim of meeting the nation's needs for medical rehabilitation science specializations for males and females, to be the first college in the founder's university and in the Kingdom to embrace five specific and unique scientific specializations within the map of health specialties, including: respiratory therapy specialization, occupational therapy specialization, Specialization in physical therapy, specialization in speech and hearing diseases, specialization in prosthetics and prosthetic devices.

The college is also proud to offer distinguished study programs with the quality of its educational and training outcomes in the labor market and under the distinguished supervision of highly qualified leaders and faculty members in the fields of specialization.

## 1-2 Faculty vision

Excellence in medical rehabilitation sciences through partnerships with a sustainable societal impact

## 1-3 Faculty mission

Preparing personnels in medical rehabilitation sciences by offering distinguished academic, research and professional clinical programs to enhance the quality of life of the individual and society.

## 1-4 Faculty objectives

- Improving academic practices and performance
- Developing administrative practices and performance
- Promoting scientific research and innovation
- Activating community partnership
- Developing infrastructure and technological basis
- Increasing own financial resources

## 1-5 Faculty admission requirements (General conditions)

- Admission to the College of Medical Rehabilitation Sciences follows the direct admission mechanism for health colleges. This is done by calculating the weighted grade for the general secondary school grade, the aptitude test and the achievement test, according to what is stated in the admission guide from the Deanship of Admission and Registration.
- Allocation in college departments is made according to the number of seats available for each department and the desire of students, and differentiation is based on the cumulative average. The number of available seats is studied annually by the College Council.

## 1-6 Faculty Graduates' employment opportunities

- Graduates of the College of Medical Rehabilitation Sciences work in various fields, most notably: hospitals, clinics, rehabilitation centers, and research centers.

## 1-8 Faculty departments, divisions, specialties

| Department           | Major                |
|----------------------|----------------------|
| AUDIO-SPEECH THERAPY | AUDIO-SPEECH THERAPY |
| PHYSIOTHERAPY        | PHYSIOTHERAPY        |
| OCCUPATIONAL THERAPY | OCCUPATIONAL THERAPY |

|                                |                     |
|--------------------------------|---------------------|
| RESPIRATORY THERAPY            | RESPIRATORY THERAPY |
| SPEECH LAN.PATHOLOGY&AUDIOLOGY | .                   |
| SPEECH LAN.PATHOLOGY&AUDIOLOGY | .                   |

## 1-7 Development aspects of study plan

The proposed Prosthetics and Orthotics program is a newly developed study plan designed in accordance with internationally recognized academic benchmarks. The plan integrates scientific, practical, and clinical components, with a structured academic progression and early exposure to clinical practice. It emphasizes evidence-based practice, research skills, and alignment with national labor market needs and accreditation requirements, ensuring the preparation of competent graduates capable of professional practice at both national and international levels.

## 1-9 Degrees awarded

- Bachelor degree in physical therapy
- Bachelor degree in occupational therapy
- Bachelor degree in respiratory therapy
- Bachelor degree in Speech Language Pathology and Audiology
- Bachelor degree in Prosthetics and Orthosis

## 1-10 Department codes

| Department                     | English Code | Arabic Code | Subject Code |
|--------------------------------|--------------|-------------|--------------|
| OCCUPATIONAL THERAPY           | OCTH         | ع ل و       | OCTH         |
| PROSTHETICS AND ORTHOTICS      | PROR         | ط ر ف       | PROR         |
| RESPIRATORY THERAPY            | RSTH         | ع ل ت       | RSTH         |
| SPEECH LAN.PATHOLOGY&AUDIOLOGY | SLPA         | أ ت س       | SLPA         |
| PHYSIOTHERAPY                  | PHTH         | ع ل ط       | PHTH         |

## 1-11 Table of graduation requirements

| Graduation Requirements | Compulsory | Elective | Total |
|-------------------------|------------|----------|-------|
| University Requirements | 23         | 0        | 23    |
| Faculty Requirements    | 30         | 0        | 30    |
| Department Requirements | 66         | 12       | 78    |
| Free Courses            | 6          | 0        | 6     |
| Program Total Hours     | 137        | 0        | 137   |

## 1-12 University Requirements

| Coure Title                   | Code/no  | Arabic Code/no | Credit Hours |
|-------------------------------|----------|----------------|--------------|
| ARABIC LANGUAGE (1)           | ARAB 101 | 101            | 3            |
| PROBLEM SOLVING & PROGRAMMING | CPIT 110 | 110            | 3            |
| ARABIC LANGUAGE (2)           | ARAB 201 | 201            | 3            |
| ISLAMIC CULTURE (4)           | ISLS 401 | 401            | 2            |

|                              |          |     |    |
|------------------------------|----------|-----|----|
| ISLAMIC CULTURE (1)          | ISLS 101 | 101 | 2  |
| ISLAMIC CULTURE (3)          | ISLS 301 | 301 | 2  |
| ENGLISH LANGUAGE - HEALTH(2) | ELIH 120 | 120 | 3  |
| ENGLISH LANGUAGE - HEALTH(1) | ELIH 110 | 110 | 3  |
| ISLAMIC CULTURE (2)          | ISLS 201 | 201 | 2  |
| Total of Credit Hours        |          |     | 23 |

## 1-13 Faculty requirements

| Course Title                   | Code/no  | Arabic Code/no | Contact Hours |    |    | Credit Hours | Pre_requirements |
|--------------------------------|----------|----------------|---------------|----|----|--------------|------------------|
|                                |          |                | Th            | Pr | Tr |              |                  |
| INTRO.TO BIOSTA.FOR HEALTH TR. | STAT 112 | ص 112          |               |    |    | 3            |                  |
| Med Rehab Labor Market Skills  | PHTH 403 | ع ل ط 403      | 3             |    |    | 3            |                  |
| Bioc.for Medical Reha.Sciences | BCHM 202 | 202            | 2             |    |    | 2            |                  |
| Manage. for Medical Reha. Sci. | PHTH 402 | ع ل ط 402      | 2             |    |    | 2            |                  |
| Physiology for Medi.Rehab.Sci. | PHYM 204 | 204            | 3             |    |    | 3            |                  |
| CALCULUS FOR HEALTH TRACK      | MATH 112 | ر 112          |               |    |    | 3            |                  |
| Anatomy for Medical Rehab.Sci. | ANTM 204 | 204            | 3             |    |    | 3            |                  |
| Rehabilitation in Psychology   | PHTH 399 | ع ل ط 399      | 2             | 0  | 0  | 2            |                  |
| GENERAL PHYS. FOR HEALTH TRACK | PHYS 112 | ف 112          |               |    |    | 3            |                  |
| GENERAL BIOLOGY FOR HEALTH TR. | BIO 112  | أ ح 112        |               |    |    | 3            |                  |
| GENERAL CHEM. FOR HEALTH TRACK | CHEM 112 | ك 112          |               |    |    | 3            |                  |
| Total of Credit Hours          |          |                | 30            |    |    |              |                  |

## 2-1 Summary

The Department of Prosthetics and Orthotics is a specialized academic department within the Faculty of Medical Rehabilitation Sciences. It is dedicated to preparing qualified professionals in the design, fabrication, assessment, and fitting of prosthetic limbs for individuals with upper- and lower-limb amputations, as well as orthotic and supportive devices for a wide range of physical conditions and injuries.

## **2-2 Department vision**

To achieve national and regional excellence in the scientific, clinical, research, and community preparation of prosthetics and orthotics professionals.

## **2-3 Department mission**

To prepare qualified professionals in the field of prosthetics and orthotics through high-quality education, distinguished clinical training, research directed toward innovative solutions, and effective community partnerships.

## **2-4 Department Objectives**

### **- Educational and Training Objectives**

- Provide a comprehensive academic curriculum aligned with national and international standards in prosthetics and orthotics education.
- Develop students' skills in assessment, treatment planning, design, and fabrication using the latest evidence-based practices and modern technologies.
- Enhance students' competencies in critical thinking, problem-solving, clinical decision-making, and professional communication.
- Support student learning through innovative teaching strategies, including simulation, hands-on training, and project-based learning.
- Offer high-quality clinical training in hospitals, manufacturing facilities, and specialized clinics.
- Establish sustainable partnerships with hospitals and rehabilitation centers to strengthen clinical and research experiences and promote knowledge exchange.
- Research Objectives

Develop the research competencies of students and faculty members in conducting high-quality qualitative and quantitative studies related to prosthetics and orthotics.

Support research projects that address national health priorities, such as limb amputation, diabetic foot, and 3D-printing technologies.

Strengthen scientific publishing in reputable journals and encourage participation in national and international conferences.

Establish an innovative research environment that promotes technical development, fosters creativity, and guides students toward applied research.

### **- Community Service Objectives**

Provide community awareness initiatives and educational programs focused on the importance of limb care, prevention, and modern prosthetic and orthotic technologies.

Strengthen partnerships with the healthcare sector, charitable organizations, and rehabilitation centers to support patients in need of prosthetic and orthotic services.

Encourage students and faculty members to participate in volunteer work and community clinics to foster a strong sense of social responsibility.

Contribute to building an informed community that is capable of benefiting from modern rehabilitation services and technologies.

## **2-5 Compliance with the faculty objectives and mission**

The Department of Prosthetics and Orthotics is closely aligned with the strategic goals and mission of the Faculty of Medical Rehabilitation Sciences. The department supports academic excellence by delivering a curriculum that meets national and international standards and responds to workforce needs, while also working to develop new academic programs that address the growing demand for specialized professionals. It strengthens the college's research and innovation objectives through projects focused on national health priorities such as limb amputation, diabetic foot, and 3D-printing technologies. Administratively, the department contributes to improving operational practices and updating its plans to ensure efficiency and alignment with the college's direction. In community engagement, it actively fosters partnerships with healthcare institutions, charitable organizations, and rehabilitation centers to deliver awareness initiatives and services that benefit patients and the community. Additionally, the department contributes to enhancing the college's financial sustainability through research collaborations, industry partnerships, and training and consulting activities, thereby supporting the college's capacity to fulfill its mission.

## 2-6 Department Admission Requirement (general conditions)

- Students must meet all admission requirements set by the university and the college, in addition to demonstrating a clear interest in patient care and working in a hospital environment. This may be assessed during the admission interview conducted by the department's admissions committee.

## 2-7 Attendance

Attendance is an essential part of the student's academic responsibility and progress. It is governed by the University's Study and Examination Regulations, which outline expectations for class attendance and academic commitment.

## 2-8 Progression from year to year

Student progression depends on adherence to the study plan, successful course completion, maintaining an acceptable GPA, and avoiding academic warnings. Early registration, regular review of academic records, and addressing academic difficulties with the advisor all support successful advancement toward graduation.

## 2-9 Program completion or Graduation requirements

| Graduation Requirements | Compulsory | Elective | Total |
|-------------------------|------------|----------|-------|
| University Requirements | 23         | 0        | 23    |
| Faculty Requirements    | 30         | 0        | 30    |
| Department Requirements | 66         | 12       | 78    |
| Free Courses            | 6          | 0        | 6     |
| Program Total Hours     | 137        | 0        | 137   |

## 2-10 Student Appeals

Students have the right to discuss concerns with their academic advisor, request clarification of academic decisions, and submit grade-related or procedural appeals in accordance with university policies. Confidentiality of student information is strictly maintained throughout the process.

## 2-11 Graduates' employment opportunities

- Government and private hospitals:  
Departments of medical rehabilitation  
Orthopedic units  
Burn and trauma centers  
Outpatient clinics
- Prosthetics and Orthotics centers
- Comprehensive Rehabilitation Centers and Disability Centers

- Manufacturing Companies and Industry
- Academic and Research Institutions
- Charitable Organizations and NGOs

## 2-12 Key to Tenth numbers

| Tens Digit | Delicate Speciality        |
|------------|----------------------------|
| 0          | Department general courses |
| 1          | Orthotics                  |
| 2          | Prosthetics                |
| 3          | Biomechanics               |
| 4          | Pediatrics                 |
| 5          | Technology                 |
| 6          |                            |
| 7          | Clinical placement         |
| 8          |                            |
| 9          | Research                   |

## 2-13 List of department compulsory courses

| Course Title                            | Code/no  | Arabic Code/no | Contact Hours |      |    | Credit Hours | Pre_requisites                                                                                                           |
|-----------------------------------------|----------|----------------|---------------|------|----|--------------|--------------------------------------------------------------------------------------------------------------------------|
|                                         |          |                | Th            | Pr   | Tr |              |                                                                                                                          |
| FUND.OF ARTIFICIAL INTELLIGENCE         | CPCS 335 | 335            | 3             | 1.50 |    | 3            | <ul style="list-style-type: none"> <li>• CPIT110.</li> <li>• MATH110.</li> <li>• STAT110.</li> </ul>                     |
| Upper limb orthotics: Theory & Practice | PROR 411 | طرف 411        | 2             | 2    | 0  | 3            | <ul style="list-style-type: none"> <li>• PROR201.</li> <li>• PROR203.</li> <li>• PROR204.</li> <li>• PROR207.</li> </ul> |
| Lower limb orthotics I: Theory          | PROR 211 | طرف 211        | 2             |      | 0  | 2            | <ul style="list-style-type: none"> <li>• ANTM204.</li> <li>• PROR201.</li> <li>• PROR203.</li> </ul>                     |
| Foundation of Prosthetics and Orthotics | PROR 201 | طرف 201        | 1             | 2    | 0  | 2            |                                                                                                                          |
| Upper limb prosthetics: Theory          | PROR 421 | طرف 421        | 2             |      | 0  | 2            | <ul style="list-style-type: none"> <li>• PROR201.</li> <li>• PROR203.</li> <li>• PROR204.</li> <li>• PROR207.</li> </ul> |

|                                            |          |         |   |   |   |   |                                                                    |
|--------------------------------------------|----------|---------|---|---|---|---|--------------------------------------------------------------------|
| Clinical Placement I                       | PROR 371 | طرف 371 | 0 |   | 6 | 2 | • PROR211.<br>• PROR212.                                           |
| Spinal Orthotics: Practice                 | PROR 413 | طرف 413 | 0 | 4 | 0 | 2 | • PROR422.                                                         |
| Above knee prosthetics: Theory             | PROR 322 | طرف 322 | 2 |   | 0 | 2 | • PROR321.                                                         |
| Pediatric prosthetics and orthotics        | PROR 341 | طرف 341 | 2 | 2 | 0 | 3 | • PROR311.<br>• PROR321.                                           |
| Pathology for prosthetics and orthotics    | PROR 202 | طرف 202 | 2 | 0 | 0 | 2 |                                                                    |
| Research methodology                       | PROR 491 | طرف 491 | 2 | 0 | 0 | 2 |                                                                    |
| Clinical placement II                      | PROR 372 | طرف 372 | 0 |   | 6 | 2 | • PROR311.<br>• PROR312.<br>• PROR321.<br>• PROR323.<br>• PROR371. |
| Orthotic management for diabetic foot      | PROR 313 | طرف 313 | 1 | 2 | 0 | 2 | • PROR211.                                                         |
| Upper limb prosthetics: Practice           | PROR 422 | طرف 422 | 0 | 4 | 0 | 2 | • PROR324.                                                         |
| Spinal orthotics: Theory                   | PROR 412 | طرف 412 | 2 |   | 0 | 2 | • PROR201.<br>• PROR203.<br>• PROR204.<br>• PROR207.               |
| Prosthetics and orthotics research project | PROR 499 | طرف 499 | 0 | 4 | 0 | 2 | • PROR491.                                                         |
| Clinical placement IV                      | PROR 472 | طرف 472 | 0 | 0 | 6 | 2 | • PROR341.<br>• PROR471.                                           |
| Lower limb orthotics I: Practice           | PROR 212 | طرف 212 | 0 | 4 | 0 | 2 | • PROR201.<br>• PROR203.<br>• PROR207.                             |
| Limb & spine physical exam                 | PROR 207 | طرف 207 | 1 | 4 | 0 | 3 |                                                                    |
| Below knee prosthetics: Practice           | PROR 323 | طرف 323 | 0 | 4 | 0 | 2 |                                                                    |
| Evidence Based Practice                    | PROR 492 | طرف 492 | 2 |   | 0 | 2 | • PROR491.                                                         |

|                                         |          |         |    |   |   |   |                                                                    |
|-----------------------------------------|----------|---------|----|---|---|---|--------------------------------------------------------------------|
| Medical screening and evaluation        | PROR 206 | طرف 206 | 1  | 2 | 0 | 2 |                                                                    |
| Lower limb orthotics II: Theory         | PROR 311 | طرف 311 | 2  |   | 0 | 2 | • PROR211.                                                         |
| Below knee prosthetics: Theory          | PROR 321 | طرف 321 | 2  |   | 0 | 2 | • PROR201.<br>• PROR202.<br>• PROR203.<br>• PROR204.<br>• PROR207. |
| Clinical placement III                  | PROR 471 | طرف 471 | 0  | 0 | 6 | 2 | • PROR322.<br>• PROR324.<br>• PROR372.                             |
| Above knee prosthetics: Practice        | PROR 324 | طرف 324 | 0  | 4 | 0 | 2 | • PROR323.                                                         |
| Lower limb orthotics II: Practice       | PROR 312 | طرف 312 | 0  | 4 | 0 | 2 | • PROR212.                                                         |
| Anatomy of musculoskeletal system       | PROR 204 | طرف 204 | 2  | 2 | 0 | 3 | • ANTM204.                                                         |
| Rehabilitation biomechanics             | PROR 331 | طرف 331 | 2  | 2 | 0 | 3 | • ANTM204.                                                         |
| Introduction to materials and equipment | PROR 203 | طرف 203 | 2  | 0 | 0 | 2 |                                                                    |
| Total of Credit Hours                   |          |         | 66 |   |   |   |                                                                    |

## 2-14 List of department elective courses

| Course Title                           | Code/no | Arabic Code/no | Contact Hours |      |    | Credit Hours | Pre_requisites                         |
|----------------------------------------|---------|----------------|---------------|------|----|--------------|----------------------------------------|
|                                        |         |                | Th            | Pr   | Tr |              |                                        |
| FUND.OF ARTIFICIAL INTELLIGENCE        | CPCS335 | 335            | 3             | 1.50 |    | 3            | • CPIT110.<br>• MATH110.<br>• STAT110. |
| Prosthetics and Orthotics neurobiology | PROR205 | طرف 205        | 2             |      | 0  | 2            |                                        |
| Medical screening and evaluation       | PROR206 | طرف 206        | 1             | 2    | 0  | 2            |                                        |
| Orthopedics and amputation             | PROR208 | طرف 208        | 2             |      | 0  | 2            |                                        |

|                                     |         |         |   |   |   |   |                          |
|-------------------------------------|---------|---------|---|---|---|---|--------------------------|
| Mobility and Documentation          | PROR301 | طرف 301 | 1 | 2 | 0 | 2 | • PROR202.<br>• PROR204. |
| Behavior and Development            | PROR302 | طرف 302 | 2 | 0 | 0 | 2 |                          |
| Global disability perspective       | PROR303 | طرف 303 | 2 | 0 | 0 | 2 |                          |
| Digital Printing                    | PROR351 | طرف 351 | 1 | 2 | 0 | 2 |                          |
| Theories in motor control           | PROR401 | طرف 401 | 2 | 0 | 0 | 2 |                          |
| Clinical ethics and policy          | PROR402 | طرف 402 | 2 |   | 0 | 2 |                          |
| Assistive technology for disability | PROR451 | طرف 451 | 2 | 0 | 0 | 2 |                          |

## Course Group

| Elective Course Title | Credit Hours | Code/no                  | Course Title                                                             |
|-----------------------|--------------|--------------------------|--------------------------------------------------------------------------|
| Elective 1            | 2            | - PROR 205<br>- PROR 208 | - Prosthetics and Orthotics neurobiology<br>- Orthopedics and amputation |
| Elective 2            | 2            | - PROR 302<br>- PROR 303 | - Behavior and Development<br>- Global disability perspective            |
| Elective 3            | 2            | - PROR 301               | - Mobility and Documentation                                             |
| Elective 4            | 2            | - PROR 351               | - Digital Printing                                                       |
| Elective 5            | 2            | - PROR 401<br>- PROR 402 | - Theories in motor control<br>- Clinical ethics and policy              |
| Elective 6            | 2            | - PROR 451               | - Assistive technology for disability                                    |
| Total of Credit Hours |              |                          | 12                                                                       |

## 2-15 Study Program

| Semester 1                     |                            |          |    |    |    |              |                |
|--------------------------------|----------------------------|----------|----|----|----|--------------|----------------|
| Course Title                   | اسم المقرر                 | Code/no  | Th | Pr | Tr | Credit Hours | Pre_requisites |
| ENGLISH LANGUAGE - HEALTH(1)   | لغة إنجليزية- صحي (1))     | ELIH 110 | 3  |    |    | 3            |                |
| ISLAMIC CULTURE (1)            | الثقافة الإسلامية - 1      | ISLS 101 | 2  |    |    | 2            |                |
| CALCULUS FOR HEALTH TRACK      | رياضيات (للمسار الصحي)     | MATH 112 |    |    |    | 3            |                |
| GENERAL CHEM. FOR HEALTH TRACK | كيمياء عامة (للمسار الصحي) | CHEM 112 |    |    |    | 3            |                |

|                                      |                            |          |  |  |  |   |  |
|--------------------------------------|----------------------------|----------|--|--|--|---|--|
| INTRO.TO<br>BIOSTA.FOR<br>HEALTH TR. | احصاء طبي(للمسار<br>الصحي) | STAT 112 |  |  |  | 3 |  |
|--------------------------------------|----------------------------|----------|--|--|--|---|--|

Total for each semester= 14

## Semester 2

| Course Title                            | اسم المقرر                   | Code/no  | Th | Pr | Tr | Credit Hours | Pre_requisites |
|-----------------------------------------|------------------------------|----------|----|----|----|--------------|----------------|
| ENGLISH<br>LANGUAGE -<br>HEALTH(2)      | لغة إنجليزية- صحي<br>(2))    | ELIH 120 | 3  |    |    | 3            |                |
| ARABIC<br>LANGUAGE<br>(1)               | -اللغة العربية -1-           | ARAB 101 | 3  |    |    | 3            |                |
| PROBLEM<br>SOLVING &<br>PROGRAMMI<br>NG | البرمجة وحل<br>المشكلات      | CPIT 110 | 3  |    |    | 3            |                |
| GENERAL<br>PHYS. FOR<br>HEALTH<br>TRACK | فيزياء (للمسار<br>الصحي)     | PHYS 112 |    |    |    | 3            |                |
| GENERAL<br>BIOLOGY<br>FOR HEALTH<br>TR. | أحياء عامة (للمسار<br>الصحي) | BIO 112  |    |    |    | 3            |                |

Total for each semester= 15

## Semester 3

| Course Title                                  | اسم المقرر                                        | Code/no  | Th | Pr | Tr | Credit Hours | Pre_requisites |
|-----------------------------------------------|---------------------------------------------------|----------|----|----|----|--------------|----------------|
| ISLAMIC<br>CULTURE (2)                        | -الثقافة الإسلامية -2-                            | ISLS 201 | 2  |    |    | 2            | • ISLS101.     |
| Anatomy for<br>Medical<br>Rehab.Sci.          | التشريح لعلوم التأهيل<br>الطبي                    | ANTM 204 | 3  |    |    | 3            |                |
| Physiology for<br>Medi.Rehab.S<br>ci.         | الفسيولوجي لعلوم<br>التأهيل الطبي                 | PHYM 204 | 3  |    |    | 3            |                |
| Bioc.for<br>Medical<br>Reha.Sciences          | الكيمياء الحيوية لعلوم<br>ت. الطبي                | BCHM 202 | 2  |    |    | 2            |                |
| Limb & spine<br>physical exam                 | الفحص البدني<br>للأطراف والعمود<br>الفكري         | PROR 207 | 1  | 4  | 0  | 3            |                |
| Foundation of<br>Prosthetics<br>and Orthotics | أساسيات الأطراف<br>الصناعية والأجهزة<br>التعويضية | PROR 201 | 1  | 2  | 0  | 2            |                |
| Introduction to<br>materials and<br>equipment | مقدمة في المواد<br>والمعدات                       | PROR 203 | 2  | 0  | 0  | 2            |                |

Total for each semester= 17

## Semester 4

| Course Title | اسم المقرر | Code/no | Th | Pr | Tr | Credit Hours | Pre_requisites |
|--------------|------------|---------|----|----|----|--------------|----------------|
|--------------|------------|---------|----|----|----|--------------|----------------|

|                                         |                                                          |          |   |   |   |   |                                        |
|-----------------------------------------|----------------------------------------------------------|----------|---|---|---|---|----------------------------------------|
| ARABIC LANGUAGE (2)                     | -اللغة العربية -2-                                       | ARAB 201 | 3 |   |   | 3 | • ARAB101.                             |
| Medical screening and evaluation        | الفحص والتقييم الطبي                                     | PROR 206 | 1 | 2 | 0 | 2 |                                        |
| Pathology for prosthetics and orthotics | الأمراض والإصابات في الأطراف الصناعية والأجهزة التعويضية | PROR 202 | 2 | 0 | 0 | 2 |                                        |
| Anatomy of musculoskeletal system       | تشريح الجهاز العضلي الهيكلي                              | PROR 204 | 2 | 2 | 0 | 3 | • ANTM204.                             |
| Rehabilitation biomechanics             | الميكانيكا الحيوية التأهيلية                             | PROR 331 | 2 | 2 | 0 | 3 | • ANTM204.                             |
| Lower limb orthotics I: Practice        | الأجهزة التعويضية للطرف السفلي (1): عملي                 | PROR 212 | 0 | 4 | 0 | 2 | • PROR201.<br>• PROR203.<br>• PROR207. |
| Elective 1                              | مقرر اختياري 1                                           | 0000 000 | 0 | 0 | 0 | 2 |                                        |
| Lower limb orthotics I: Theory          | الأجهزة التعويضية للطرف السفلي (1): نظري                 | PROR 211 | 2 |   | 0 | 2 | • ANTM204.<br>• PROR201.<br>• PROR203. |

Total for each semester= 19

### Semester 5

| Course Title                          | اسم المقرر                               | Code/no  | Th | Pr | Tr | Credit Hours | Pre_requisites                                                     |
|---------------------------------------|------------------------------------------|----------|----|----|----|--------------|--------------------------------------------------------------------|
| ISLAMIC CULTURE (3)                   | -الثقافة الإسلامية -3-                   | ISLS 301 | 2  |    |    | 2            | • ISLS201.                                                         |
| Lower limb orthotics II: Theory       | الأجهزة التعويضية للطرف السفلي (2): نظري | PROR 311 | 2  |    | 0  | 2            | • PROR211.                                                         |
| Below knee prosthetics: Theory        | أطراف صناعية تحت الركبة: نظري            | PROR 321 | 2  |    | 0  | 2            | • PROR201.<br>• PROR202.<br>• PROR203.<br>• PROR204.<br>• PROR207. |
| Orthotic management for diabetic foot | الأجهزة التعويضية للقدم السكرية          | PROR 313 | 1  | 2  | 0  | 2            | • PROR211.                                                         |
| Elective 3                            | مقرر اختياري 3                           | 0000 000 | 0  | 0  | 0  | 2            |                                                                    |
| Elective 2                            | مقرر اختياري 2                           | 0000 000 | 0  | 0  | 0  | 2            |                                                                    |
| Below knee prosthetics: Practice      | أطراف صناعية تحت الركبة: عملي            | PROR 323 | 0  | 4  | 0  | 2            |                                                                    |
| Lower limb orthotics II: Practice     | الأجهزة التعويضية للطرف السفلي (2): عملي | PROR 312 | 0  | 4  | 0  | 2            | • PROR212.                                                         |

| Clinical Placement I                | التدريب السريري 1                           | PROR 371 | 0  |      | 6  | 2            | • PROR211.<br>• PROR212.                                           |
|-------------------------------------|---------------------------------------------|----------|----|------|----|--------------|--------------------------------------------------------------------|
| Total for each semester= 18         |                                             |          |    |      |    |              |                                                                    |
| Semester 6                          |                                             |          |    |      |    |              |                                                                    |
| Course Title                        | اسم المقرر                                  | Code/no  | Th | Pr   | Tr | Credit Hours | Pre_requisites                                                     |
| ISLAMIC CULTURE (4)                 | الثقافة الإسلامية -4                        | ISLS 401 | 2  |      |    | 2            | • ISLS301.                                                         |
| Rehabilitation in Psychology        | علم النفس في التأهيل                        | PHTH 399 | 2  | 0    | 0  | 2            |                                                                    |
| Above knee prosthetics: Practice    | أطراف صناعية فوق الركبة: عملي               | PROR 324 | 0  | 4    | 0  | 2            | • PROR323.                                                         |
| Clinical placement II               | التدريب السريري 2))                         | PROR 372 | 0  |      | 6  | 2            | • PROR311.<br>• PROR312.<br>• PROR321.<br>• PROR323.<br>• PROR371. |
| Pediatric prosthetics and orthotics | الأطراف الصناعية والأجهزة التعويضية للأطفال | PROR 341 | 2  | 2    | 0  | 3            | • PROR311.<br>• PROR321.                                           |
| Above knee prosthetics: Theory      | أطراف صناعية فوق الركبة: نظري               | PROR 322 | 2  |      | 0  | 2            | • PROR321.                                                         |
| Elective 4                          | مقرر اختياري 4                              | 0000 000 | 0  | 0    | 0  | 2            |                                                                    |
| FUND.OF ARTIFICIAL INTELLIGENCE     | أساسيات الذكاء الاصطناعي                    | CPCS 335 | 3  | 1.50 |    | 3            | • CPIT110.<br>• MATH110.<br>• STAT110.                             |
| Total for each semester= 18         |                                             |          |    |      |    |              |                                                                    |
| Semester 7                          |                                             |          |    |      |    |              |                                                                    |
| Course Title                        | اسم المقرر                                  | Code/no  | Th | Pr   | Tr | Credit Hours | Pre_requisites                                                     |
| Med Rehab Labor Market Skills       | مهارات سوق العمل للتأهيل الطبي              | PHTH 403 | 3  |      |    | 3            |                                                                    |
| Upper limb prosthetics: Practice    | الأطراف الصناعية العلوية: عملي              | PROR 422 | 0  | 4    | 0  | 2            | • PROR324.                                                         |
| Elective 5                          | مقرر اختياري 5                              | 0000 000 | 0  | 0    | 0  | 2            |                                                                    |
| Upper limb prosthetics: Theory      | الأطراف الصناعية العلوية: نظري              | PROR 421 | 2  |      | 0  | 2            | • PROR201.<br>• PROR203.<br>• PROR204.<br>• PROR207.               |

|                                         |                                            |          |   |   |   |   |                                                                                                                          |
|-----------------------------------------|--------------------------------------------|----------|---|---|---|---|--------------------------------------------------------------------------------------------------------------------------|
| Free course 1                           | مقرر حر 1                                  | 0000 000 | 0 | 0 | 0 | 3 |                                                                                                                          |
| Upper limb orthotics: Theory & Practice | الأجهزة التعويضية للطرف العلوي: نظري وعملي | PROR 411 | 2 | 2 | 0 | 3 | <ul style="list-style-type: none"> <li>• PROR201.</li> <li>• PROR203.</li> <li>• PROR204.</li> <li>• PROR207.</li> </ul> |
| Clinical placement III                  | التدريب السريري 3))                        | PROR 471 | 0 | 0 | 6 | 2 | <ul style="list-style-type: none"> <li>• PROR322.</li> <li>• PROR324.</li> <li>• PROR372.</li> </ul>                     |
| Research methodology                    | منهجية البحث العلمي                        | PROR 491 | 2 | 0 | 0 | 2 |                                                                                                                          |

Total for each semester= 19

### Semester 8

| Course Title                               | اسم المقرر                                         | Code/no  | Th | Pr | Tr | Credit Hours | Pre_requisites                                                                                                           |
|--------------------------------------------|----------------------------------------------------|----------|----|----|----|--------------|--------------------------------------------------------------------------------------------------------------------------|
| Manage. for Medical Reha. Sci.             | الإدارة لعلوم التأهيل الطبي                        | PHTH 402 | 2  |    |    | 2            |                                                                                                                          |
| Elective 6                                 | مقرر اختياري 6                                     | 0000 000 | 0  | 0  | 0  | 2            |                                                                                                                          |
| Spinal orthotics: Theory                   | الأجهزة التعويضية للعمود الفقري: نظري              | PROR 412 | 2  |    | 0  | 2            | <ul style="list-style-type: none"> <li>• PROR201.</li> <li>• PROR203.</li> <li>• PROR204.</li> <li>• PROR207.</li> </ul> |
| Spinal Orthotics: Practice                 | الأجهزة التعويضية للعمود الفقري: عملي              | PROR 413 | 0  | 4  | 0  | 2            | • PROR422.                                                                                                               |
| Evidence Based Practice                    | الممارسة المبينة على الأدلة                        | PROR 492 | 2  |    | 0  | 2            | • PROR491.                                                                                                               |
| Prosthetics and orthotics research project | مشروع البحث في الأطراف الصناعية والأجهزة التعويضية | PROR 499 | 0  | 4  | 0  | 2            | • PROR491.                                                                                                               |
| Free course 2                              | مقرر حر 2                                          | 0000 000 | 0  | 0  | 0  | 3            |                                                                                                                          |
| Clinical placement IV                      | التدريب السريري 4))                                | PROR 472 | 0  | 0  | 6  | 2            | <ul style="list-style-type: none"> <li>• PROR341.</li> <li>• PROR471.</li> </ul>                                         |

Total for each semester= 17

Total= 137

### 3-1 Available resources and current needs

| Actual Need          | Available | Required |
|----------------------|-----------|----------|
| Technicians          | 0         | 4        |
| Administrative Staff | 0         | 1        |
| Teaching Staff       | 9         | 12       |

|                 |   |   |
|-----------------|---|---|
| General Lab     | 0 | 1 |
| Specialized Lab | 0 | 3 |

### 3-2 List of Teaching Staff Members

| No | Name | Nationality | General Speciality | Delicate Speciality |
|----|------|-------------|--------------------|---------------------|
|----|------|-------------|--------------------|---------------------|

### 3-3 Human and material requirements for the application of the study plan

| Actual need          | Speciality | Qualification | No |
|----------------------|------------|---------------|----|
| Administrative Staff |            | Bachelor      | 1  |
| Teaching Staff       |            | Bachelor      | 0  |
| Teaching Staff       |            | PHD           | 0  |
| Teaching Staff       |            | PHD           | 12 |
| Teaching Staff       |            | Bachelor      | 0  |
| Technicians          |            | Bachelor      | 2  |
| Technicians          |            | Bachelor      | 0  |

| Actual Need     | Lab Description                                       | Equipment | No |
|-----------------|-------------------------------------------------------|-----------|----|
| General Lab     | A prosthetics and orthotics clinic to assess patients |           | 0  |
| Specialized Lab | The Casting, Molding, and Grinding Laboratory         |           | 0  |
| Specialized Lab | The Modification and Assembly Laboratory              |           | 0  |
| Specialized Lab | The Thermoforming, Vacuum, and Machining Laboratory   |           | 0  |