



Unit Description

Form Course

Description Form

Faculty of Engineering / Department of Biomedicine



Unit Information

Course Information

| | | | | |
|--|------------------------|--------------------------------------|---|--|
| Unit Title | Limbs anatomy | | Unit delivery | |
| Unit Type | basic | | <input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecturer <input checked="" type="checkbox"/> Laborator <input checked="" type="checkbox"/> y <input type="checkbox"/> Practical <input type="checkbox"/> Tutorial <input type="checkbox"/> Seminar | |
| Unit Code | BME-225 | | | |
| ECTS Credits | 7 | | | |
| SWL (hr / without) | 175 | | | |
| Unit level | 4 | Delivery Semester | 2 | |
| Department of Administration | Biomedical Engineering | College | College of Engineering | |
| Unit Commander | Aref Al , Sayyad | E-mail Address | aref.alsayad@uowa.edu.iq | |
| Title of Unit Commander | Assistant Lecturer | Unit Commander Qualifications | Master | |
| Unit Teacher | Aref Al , Sayyad | E-mail Address | aref.alsayad@uowa.edu.iq | |
| Peer Reviewer Name | | E-mail Address | | |
| Date of accreditation of the Scientific Committee | 01/06/2023 | Version number | 1.0 | |

Relationship with other units

Relationship with other subjects

| | | | |
|---------------------------------|----|-----------------|--|
| Prerequisites Unit | No | Semester | |
| Common Requirements Unit | No | Semester | |

| Unit objectives, learning outcomes and how-to contents Course objectives, learning outcomes and instructional contents | |
|--|--|
| Objectives of the Unit Course Objectives | <p>The module aims to provide detailed knowledge about: the skeleton of the upper and lower limbs. The muscles that control the movement of the limbs .</p> <p>Nerves that supply nerve signals to the limbs.</p> <p>Blood vessels that feed the limbs.</p> <p>The unit highlights the relationships between anatomical components and their role in facilitating daily movements and functions. This knowledge helps to:</p> <p>Analysis of clinical conditions associated with the limbs.</p> <p>Dealing with injuries and diseases affecting the limbs.</p> |
| Unit Learning Outcomes Learning outcomes of the course | <p>Identify the anatomical components of the upper and lower extremities, including bones, muscles, nerves, and blood vessels</p> <p>Explain the functional relationship between the different anatomical components and their role in movement and support .clarify the nerve and vascular pathways of the limbs and understand their effect on normal function,</p> <p>.Analysis of common limb-related injuries and explain their impact on movement and vital functions</p> <p>.Application of anatomical knowledge in the interpretation of relevant clinical cases</p> <p>.Develop critical thinking skills to understand clinical conditions and diagnose periphery-related problems</p> |
| Indicative Contents Indicative Contents | <p>1. Introduction to limb anatomy: includes an overview of the components of the upper and lower limbs and their basic functions</p> <p>2. Study of the skeleton of the limbs: Analysis of the bones that make up the limbs, including their locations and characteristics</p> <p>3. Muscle anatomy: recognize the muscles of the limbs, their functions, and mechanisms of movement</p> <p>4. Neural pathways: Explanation of the main nerves that supply the limbs and their motor and sensory functions.</p> <p>5. Blood vessels: identification of the arteries and veins that feed the limbs and their anatomical significance</p> <p>.6 Clinical relationships: linking anatomical information to clinical conditions, such as associated injuries and disorders</p> <p>By the parties.</p> |

| Learning and Teaching Strategies Learning and Teaching Strategies | | | |
|--|--|--|-----|
| Strategies | <p>This module is based on a combination of interactive lectures and practical sessions to understand the detailed anatomy of the limbs. Multimedia, such as three-dimensional models and anatomical images, are used to enhance visual perception. It also encourages group discussions and problem solving for clinical case analysis. Activities conclude with practical applications for skills development</p> <p>.Basic Clinical</p> | | |
| Student Workload (SWL) The student's academic load is calculated for 15 weeks | | | |
| SWL regulator (h/sim) Regular academic load of the student during the semester | 64 | Regulator (h / w) SWL Regular student load per week | 4 |
| SWL non-regulator (h/sim) Irregular academic load of the student during the semester | 61 | Unregulated (h / w) SWL Irregular student academic load per week | 4 |
| Total SWL (h/SEM) The student's total academic load during the semester | | | 125 |

Unit Evaluation
Course Evaluation

| As | | Time/Number | Weight (marks) | Week due | Related learning outcomes |
|----------------------|-------------------------------|-------------|-----------------|------------|---------------------------|
| Formative Assessment | Tournament | 2 | 10% (10) | 5, 10 | LO #1 11 , 10 , 2 and |
| | Assignments | 2 | 10% (10) | 2, 12 | LO #3 7 , 6 , 4 and |
| | .Laboratory / Projects | 1 | 10% (10) | continuous | every |
| | report | 1 | 10% (10) | 13 | LO #5, 10 , 8 and |
| Final Assessment | Midterm Exam | 2 hr | 10% (10) | 7 | LO #1-7 |
| | Final Exam | 2 hours | 50% (50) | 16 | every |
| Overall Rating | | | Grade (100%100) | | |

Delivery Plan (Weekly Curriculum)
Theoretical Weekly Curriculum

| week | Covered Material |
|--------------------------|--|
| The week 1+2+3 | The student learns what is anatomy and methods of studying anatomy and medical terminology related to anatomy, and learning the situation |
| Week 5+4 | The student learns the basic structures of the human body and its functions such as the skin and its accessories, the membranes of the body, muscles and joints, bone, ligaments, synovial fluid and its accessories, the function of each structure, cartilage, its types, functions and ligaments. |
| Week 7+6 | Study the devices used in diagnosis, as well as knowing the mechanism of work of each device and its benefits and harms, such as X-ray, MRI, endoscope, device Drop, Sutar |
| Week 9+8 | The student learns to study the bone of the upper limbs and study their shape and knowledge of their number and location and the functions it performs |
| The week 11+10 | The student should know the names of the connections, their location, and the functions that they have as well as the origin of the holiday and the club Muscle implant |

| | |
|----------------|---|
| Week 12 | The student learns about the armpit area and its protection, the boundaries that form it, the blood vessels, the lymph nodes circulating in it and the nerves that feed it The student learns the names of nerves And places that face each nerve and the functions it performs |
| Week 13 | The student learns the lower limbs and the bones below them |
| Week 14 | The student learns a full description of all the bones that are in the lower extremities such as the hip and thigh bones and the functions they perform |
| Week 15 | The student learns a full description of all the bones that are in the lower extremities such as the hip and thigh bones and the functions they perform |

| Learning and Teaching Resources | | |
|---------------------------------|---|---------------------------|
| Learning and Teaching Resources | | |
| | text | Available in the library? |
| Required texts | Clinical anatomy of the upper and lower limbs, (10 editions), by Cara Maud, MSPAS, PA-C | Yes |
| Recommended texts | | Yes |
| Websites | | |

| Grading chart | | | | |
|---|-------------------------|-------------------|-----------|--|
| Grading chart | | | | |
| group | degree | Appreciation | (%) Marks | definition |
| An-Najah Group (50 - 100) | Excellent - A | privilege | 90 - 100 | Outstanding Performance |
| | Very Good - B | Very good | 80 - 89 | Above average with some errors |
| | Good - C | Good | 70 - 79 | Proper work with noticeable errors |
| | Satisfactory - D | medium | 60 - 69 | Fair but with significant shortcomings |
| | Adequate - E | Acceptable | 50 - 59 | The work meets the minimum standards |
| Group failure (0 – 49) | FX - Failed | Fail (in process) | (45-49) | More work required but credit granted |
| | Failure - F | Failure | (0-44) | Large amount of work required |
| <p>Signs that are greater than or less than 0.5 decimal places will be rounded up to the highest or lowest full sign (for example, Note: , so the only amendment "the university has a policy of not tolerating the 'imminent traffic failure' ".The score of 54.5 will be rounded to 55, while the score of 54.4 will be rounded to 54.On the marks granted by the original mark(s) will be the automatic rounding shown above</p> | | | | |



Unit Teacher

Assistant Lec.Aref Al-Saeed