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|  | <p>Ministry of Higher Education and Scientific Research - Iraq</p> <p>University of Warith Al-Anbiyaa</p> <p>College of Advanced Technologies</p> <p>Department of Radiology and Nuclear Medicine Techniques</p> |  |
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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

| Module Information | | | |
|------------------------------------|--|-------------------------------|---|
| Module Title | Anatomy and Physiology I | | Module Delivery |
| Module Type | Core | | <input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar |
| Module Code | RSNM103 | | |
| ECTS Credits | 8:00 | | |
| SWL (hr/sem) | 200 | | |
| Module Level | 1 | Semester of Delivery | |
| Administering Department | Radiologic Sciences and Nuclear Medicine Technologies | College | College of Advanced Technologies |
| Module Leader | Ruaa Majeed Dawood | e-mail | roaa.majed@uowa.edu.iq |
| Module Leader's Acad. Title | Lecturer | Module Leader's Qualification | Ph.D. |
| Module Tutor | Ruaa Majeed Dawood | e-mail | |
| Peer Reviewer Name | | e-mail | |
| Scientific Committee Approval Date | | Version Number | |

| Relation with other Modules | | | |
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| العلاقة مع المواد الدراسية الأخرى | | | |
| Prerequisite module | NA | Semester | |
| Co-requisites module | NA | Semester | |

| Module Aims, Learning Outcomes and Indicative Contents | |
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| أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية | |
| Module Aims أهداف المادة الدراسية | <p>This module aims to provide students with a comprehensive understanding of the normal structure (anatomy) and function (physiology) of the human body. It focuses on the organization of the body from the cellular level to organ systems and explains how these systems interact to maintain homeostasis. The module seeks to develop students' ability to use correct anatomical terminology, understand basic physiological mechanisms, and apply anatomical and physiological knowledge to clinical and healthcare-related contexts as a foundation for further medical and health sciences studies.</p> |
| Module Learning Outcomes مخرجات التعلم للمادة الدراسية | <p>By the end of this module, students will be able to:</p> <ol style="list-style-type: none"> 1. Describe the basic anatomical organization of the human body, from cells and tissues to organs and systems. 2. Explain the fundamental physiological functions of major body systems and how they contribute to homeostasis. 3. Use correct anatomical terminology to identify body structures and anatomical relationships. 4. Relate normal anatomical structures to their corresponding physiological functions. 5. Apply basic anatomy and physiology knowledge to clinical and healthcare-related situations. 6. Distinguish between normal structure and function as a foundation for understanding disease processes in later modules. |
| Indicative Contents المحتويات الإرشادية | <p>This module focuses on the skeletal system, providing students with a conceptual understanding of the structure and function of bones, joints, and connective tissues. The course covers bone classification, anatomy of major bones, and the role of the skeletal system in movement, support, and protection. Students will also explore the relationship between bone physiology and overall body function, common skeletal disorders, and clinical applications in healthcare.</p> |

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| | settings. Practical examples and simple demonstrations will be used to illustrate anatomical concepts and enhance comprehension. |
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| Learning and Teaching Strategies استراتيجيات التعلم والتعليم | |
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| Strategies | <ol style="list-style-type: none"> 1. Lectures: Presenting core concepts interactively with practical examples. 2. Tutorials and Workshops: Group sessions to apply concepts and solve practical problems. 3. Problem-Based Learning (PBL): Analyzing real-world scenarios and proposing digital health solutions. 4. Independent Study: Reading educational materials, conducting research, and completing exercises to reinforce understanding. 5. Assessment-Linked Activities: Quizzes, assignments, and presentations to monitor students' progress and comprehension. |

| Student Workload (SWL) الحمل الدراسي للطالب | | | |
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| Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل | 74 | Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً | 5 |
| Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل | 126 | Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً | 32 |
| Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل | 200 | | |

| Module Evaluation تقييم المادة الدراسية | | | | | |
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| | | Time/ Number | Weight (Marks) | Week Due | Relevant Learning Outcome |
| Formative assessment | Quizzes | 3 | 10 % (10) | 2,5,8 | LO # 1, 4, 5, 7,8 |
| | Assignments | 3 | 10 % (10) | 4,7,11 | LO # 1-15 |
| | Lab. | 1 | 10 % (10) | 4,6 | LO # 1-15 |
| | Report | 1 | 10 % (10) | 3,8 | LO # 1-15 |
| Summative assessment | Midterm Exam | 1 | 10 % (10) | 7 | LO # 1-15 |

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| | Final Exam | 1 | 50% (50) | | All |
| Total assessment | | | 100% (100 Marks) | | |

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

| | Material Covered |
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| Week 1 | Introduction , definition: - Surface anatomy and anatomical position, - vertical, horizontal lines and plane of abdominal organ, - cell and tissue types |
| Week 2 | - General Osteology Types of bones |
| Week 3 | - Axial and Appendicular Skeleton Division |
| Week 4 | - Skull Anatomy |
| Week 5 | - Neck Anatomy |
| Week 6 | - Facial Anatomy |
| Week 7 | - Skeleton of chest |
| Week 8 | -Ribs , sternum.and Vertebrae. |
| Week 9 | -Cervical, thoracic, lumbar, sacrum and coccyx) Intervertebral disc Skeleton of Upper limb. |
| Week 10 | Skeleton of lower limb. Bony Pelvic girdle |
| Week 11 | -Joints Type of joint Mechanism of movement |
| Week 12 | - Cartilage: Types and Functions in the Skeleton |
| Week 13 | Imaging of the Skeletal System (X-ray, CT, MRI) Clinical Correlation: Fractures and Bone Healing |
| Week 14 | Common Skeletal Disorders and Abnormalities |
| Week 15 | Preparatory week before the final Exam |

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

| | Material Covered |
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| Week 1 | Introduction & Surface Anatomy – Anatomical position and skeletal overview |

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| Week 2 | Abdominal Lines & Planes –Vertical and horizontal lines; organ planes |
| Week 3 | General Osteology – Bone types and classification |
| Week 4 | Cells & Tissues- Bone cells, connective tissues, and bone structure |
| Week 5 | Axial & Appendicular Skeleton Overview – Division and general features |
| Week 6 | Skull Anatomy – Cranial bones and landmarks |
| Week 7 | Facial & Neck Anatomy – Facial bones, cervical vertebrae |
| Week 8 | Thoracic Skeleton – Chest, ribs, sternum, vertebrae |
| Week 9 | Intervertebral Discs – Structure, function, and clinical relevance |
| Week 10 | Upper Limb Skeleton – Shoulder, arm, forearm, and hand bones |
| Week 11 | Lower Limb Skeleton – Thigh, leg, foot, pelvic girdle |
| Week 12 | Joints & Cartilage – Joint types, movement mechanisms, cartilage types and functions |
| Week 13 | Imaging of the Skeleton – X-ray, CT, MRI applications |
| Week 14 | Clinical Applications – Fractures, bone healing, skeletal disorders, and case studies |
| Week 15 | Preparatory week before the final Exam |

Learning and Teaching Resources

مصادر التعلم والتدريس

| | Text | Available in the Library? |
|-----------------------|--|----------------------------------|
| Required Texts | <ul style="list-style-type: none"> Drake RL, Vogl AW, Mitchell AW. Gray's Anatomy for Students. 4th ed. Elsevier; 2020. Available at: https://www.elsevier.com/books/grays-anatomy-for-students/drake/9780702077050 Moore KL, Dalley AF, Agur AMR. Clinically Oriented Anatomy. 8th ed. Wolters Kluwer; 2018. Available at: https://shop.lww.com/Clinically-Oriented-Anatomy/p/9781975158925 Atlas of Human Anatomy – Netter FH. 7th ed. Elsevier; 2018. https://www.elsevier.com/books/netters-atlas-of-human-anatomy/netter/9780323672898 | Yes |

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| | <ul style="list-style-type: none"> TeachMeAnatomy Free anatomy tutorials, skeletal system overviews, clinical correlations. https://teachmeanatomy.info Anatomy Atlases (Netter, Grant's, etc.) Online Open access anatomy atlases and images for educational purposes. https://www.anatomyatlases.org NIH / National Library of Medicine – MedlinePlus: Bones | |
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| Grading Scheme مخطط الدرجات | | | | |
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| Group | Grade | التقدير | Marks (%) | Definition |
| Success Group (50 - 100) | A - Excellent | امتياز | 90 - 100 | Outstanding Performance |
| | B - Very Good | جيد جدا | 80 - 89 | Above average with some errors |
| | C - Good | جيد | 70 - 79 | Sound work with notable errors |
| | D - Satisfactory | متوسط | 60 - 69 | Fair but with major shortcomings |
| | E - Sufficient | مقبول | 50 - 59 | Work meets minimum criteria |
| Fail Group (0 - 49) | FX – Fail | راسب (قيد المعالجة) | (45-49) | More work required but credit awarded |
| | F – Fail | راسب | (0-44) | Considerable amount of work required |
| Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above. | | | | |

استاذ المادة

Dr. Ruaa Majeed Dawood

التاريخ:

رئيس القسم

التاريخ