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| --- | --- |
| **Course Title:**  | Basic Human Structure and Function |
| **Course Code:** | **242 HSF-4** |
| **Program:** | **Bachelor of Medicine and Bachelor of Surgery (MBBS(** |
| **Department:**  | **NA** |
| **College:** | **Medicine** |
| **Institution:** | **Najran University** |

# A. Course Identification

|  |  |
| --- | --- |
| 1. **Credithors**

 **4 (3+1)** |  |
| **2. Course type** |
| **a.** | University |  | College |  | Department |  | Others |  |  |
| **b.** | Required | **√** | Elective |  |  |
| **3. Level/year at which this course is offered:** **Year 2 - Semester-1 (level4)** |  |
| **4. Pre-requisites for this course** (if any)**:**None |
| **5. Co-requisites for this course** (if any)**:** |
| None |

## 6. Mode of Instruction (mark all that apply)

| **No** | **Mode of Instruction** | **Contact Hours** | **Percentage**  |
| --- | --- | --- | --- |
| **1** | **Traditional classroom** | 54 | 60% |
| **2** | **Blended**  |  |  |
| **3** | **E-learning** |  |  |
| **4** | **Distance learning**  |  |  |
| **5** | **Other**  | 30 | 40% |

**7. Contact Hours** (based on academic semester)

|  |  |  |
| --- | --- | --- |
| **No** | **Activity** | **Contact Hours** |
| **1** | **Lecture** |  45  |
| **2** | **Laboratory/ Dissection Room (DR)** |  30 |
| **3** | **Tutorial**  |  |
| **4** | **Others** (specify) |  |
|  | **Total** |  75 |

# B. Course Objectives

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| 1. Course Description This course is delivered to the medical students at level three/2ndyear. The course provides the principal knowledge of human structure and function through a horizontally integrated study of basic anatomy, histology, and physiology. The anatomy covers basic anatomic components of the human body and its systems, in addition to basic tissues and their cellular composition. The physiology part focuses on outlines of functions and control of body systems. The basic facts given in this course will enable the students to build on and integrate knowledge in the later years of study. |
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| Course Main ObjectiveBy the end of this course, the students are expected to:1. Relate the basic human structures with their principal functions at micro andmacroscopic levels.2. Outline the body systems functions and their basic control mechanisms. |
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# C. Course Content

|  |  |  |
| --- | --- | --- |
| **No** | **List of Topics** | **Contact Hours** |
| 1 | Anatomical terms, position, planes and movements (Ana- L  | 1 |
| 2 | Skin, fascia, serous membranes and body cavities (Ana- L)  | 1 |
| 3 | Skeletal system-1(Ana- L  | 1 |
| 4 | Skeletal system-2 (Ana- L  | 1 |
| 5 | Joints (Ana-L  | 1 |
| 6 | Muscles (cardiac, smooth & skeletal) (Ana- L  | 1 |
| 7 | Cardiovascular system(Ana- L ) | 1 |
| 8 | Lymphatic system (Ana- L ) | 1 |
| 9 |  Respiratory system (Ana- L  | 1 |
| 10 | Digestive system (Ana-L  | 1 |
| 11 | Urinary system (Ana- L  | 1 |
| 12 |  Male reproductive system (Ana- L  | 1 |
| 13 | Female reproductive system (Ana- L  | 1 |
| 14 | Endocrine system (Ana- L  | 1 |
| 15 | Nervous system and special sense organs-1 (Ana- L  | 1 |
| 16 | Nervous system and special sense organs-2 (Ana- L  | 1 |
| 17 | Skeletal system-1 (Ana- DR  |  |
| 18 | Skeletal system-2, Skin and fascia (Ana- DR  |  |
| 19 | Muscles and joints. (Ana- DR  |  |
| 20 | Cardiovascular system. (Ana- DR  |  |
| 21 | Respiratory systems. (Ana- DR  |  |
| 22 | Digestive system. (Ana- DR  |  |
| 23 | Urinary and genital systems. (Ana- DR  |  |
| 24 | Endocrine system (Ana- DR  |  |
| 25 | Nervous systems. (Ana- DR  |  |
| 26 | Introduction to basic histology (Hist-L  |  |
| 27 | Histological techniques  |  |
| 28 | Microscopy (Hist-L  |  |
| 29 | Cell structure-1 (Hist-L  |  |
| 30 | Cell structure-2(Hist-L  |  |
| 31 | Cell cycle (Hist-L  |  |
| 32 | Epithelial tissues-1(Hist-L  |  |
| 33 | Epithelial tissues -2(Hist-L  |  |
| 34 | Connective tissue cells (Hist-L  |  |
| 35 | Connective tissue proper (Hist-L  |  |
| 36 | Cartilaginous tissues (Hist-L  |  |
| 37 | Bone tissues (Hist-L  |  |
| 38 | Blood (Hist-L  |  |
| 39 | Muscular tissues (Hist-L  |  |
| 40 | Nervous tissue (Hist-L  |  |
| 41 | Light microscope parts and how to use light microscope (Hist-Lab  |  |
| 42 | Epithelial tissue (Hist-Lab  |  |
| 43 | Connective tissue proper (Hist-Lab  |  |
| 44 | Skeletal connective tissues (cartilage & bone tissues) (Hist-Lab  |  |
| 45 | Blood morpholog (Hist-Lab  |  |
| 46 | Muscular and nervous tissues (Hist-Lab  |  |
| 47 | Organization of human body (Phys-L  |  |
| 48 | Outlines on functions of blood and immune system-1 (Phys-L  |  |
| 49 | Outlines on functions of blood and immune system-2 (Phys-L  |  |
| 50 | Outlines on functions of the musculoskeletal system (Phys-L  |  |
| 51 | Outlines on functions of the cardiovascular system (Phys-L  |  |
| 52 | Outlines on functions of the respiratory system (Phys-L  |  |
| 53 | Outlines on functions of the gastrointestinal system (Phys-L  |  |
| 54 | Outlines on functions of the urinary system (Phys-L  |  |
| 55 | Outlines on functions of the reproductive system (Phys-L  |  |
| 56 | Outlines on functions of the endocrine system (Phys-L  |  |
| 57 | Outlines on functions of the nervous system-1 (Phys-L  |  |
| 58 | Outlines on functions of the nervous system-2 (Phys-L  |  |
| 59 | Principles of control of body functions-1 (Phys-L  |  |
| 60 | Principles of control of body functions-2 (Phys-L  |  |
| **Total** |  |

# D. Assessment Tasks for Students

| **#** | **Assessment task\***  | **Week Due** | **Percentage of Total Assessment Score** |
| --- | --- | --- | --- |
| **1** | Midblock (written test - MCQs & SAQs  | 3rd  | 30%  |
| **2** | Logbook assessment  | 4th  | 10%  |
| **3** | End of course Exam: Theory (40%) - (written test - MCQs) Practical (20%) – OSPE  | 4th  | 60%  |
| **4** | **Total**  |  |  100%  |

**\*Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

# F. Learning Resources and Facilities

## 1.Learning Resources

|  |  |
| --- | --- |
| **Required Textbooks** | 1. **Gross Anatomy**: 1. Snell Clinical Anatomy by Regions 10th edition (2019).

LAWRENCE E. WINESKI, PHD.**B. Histology**: **1.** WHEATER’S Functional Histology: A Text and Colour Atlas. Barbara Young, Phillip Woodford and Geraldine O’Dowd. 6th Ed. **2**. JUNQUEIRA’S Basic Histology: text and atlas. Antony L. Mescher. 16th Ed (2021).**C. Physiology**: 1. Guyton and Hall Textbook of Medical Physiology, 14th Edition (2021) by John E. Hall, Arthur C Guyton, Elsevier ISBN: 978-0-323-59712-8. |
| **Essential References Materials** | 1. Ganong's Review of Medical Physiology (LANGE), 26th Edition (2019) by Kim E. Barrett (Author), Susan M.Barman (Author), Heddwen Brooks (Author), JasonYuan (Author), McGraw-Hill's ISBN 978-1-26-012241-1 |
| **Electronic Materials** | 1. Saudi Digital Library (<https://sdl.edu.sa>). 2. http://www.adameducation.com/interactive-physiology |
| **Other Learning Materials** |  |

## 2. Facilities Required

| **Item** | **Resources** |
| --- | --- |
| **Accommodation**(Classrooms, laboratories, demonstration rooms/labs, etc.) |  . 1. Lecture room suitable for enrolled number of students. 2. Laboratory (Dissection Room-DR, Histology, Physiology, Biochemistry, and clinical skills) suitable for the enrolled number of students and equipped with required teaching instruments  |
| **Technology Resources** (AV, data show, Smart Board, software, etc.) | 3.Computers and audiovisual aids in the lecture room and laboratories  |
| **Other Resources** (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list) | Library supplied with reference, textbooks, and electronic resources  |

# F. Specification Approval Data

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| --- | --- |
| **Council / Committee** |  |
| **Reference No.** |  |
| **Date** |  |