**COURSE PLAN**

**FIRST Year: BASIC INFORMATION**

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| **College** | |  | | | | | | |
|  | College | Faculty of Medicine | | | | | | |
|  | Department | Department of Basic Sciences | | | | | | |
| **Course** | |  | | | | | | |
|  | Course Title | Introduction to Histology for Medical Students | | | | |  | |
|  | Course Code | 31502111 | | | | | | |
|  | Credit Hours | 2 Hours ( 1 lectures & 1 lab) | | | | | | |
|  | Prerequisite | None | | | | | | |
| **Instructor** | |  | | | | | | |
|  | Name | Prof. Abdulameer Al-Nuaimi Course coordinator and other staff members as per subject. | | | | | | |
|  | Office No. | 3 | | | | | | |
|  | Tel (Ext) | 0790206690 | | | | | | |
|  | E-mail | abdulameerh@Yahoo.com | | | | | | |
|  | Office Hours | Sunday , Tuesday, Thursday 10-1 | | | | | | |
| Class Times | | Building | | Day | Start Time | End Time | | Room No. |
| Lectures  Pre-lab lectures  Laboratories | | Lectures Hall Complex  Lectures Hall Complex  Faculty of Science | | Sunday  Thursday  Sunday through Thursday | 14:00  14:00  8:00 | 15:00  15:00  11:00 | | 1  1  Anatomy lab. |
| **Text Books** | | |  | | | | | |
|  |  | | 1- **Histology textbook**: Basic histology: Text & AtlasBy: Junqueira, LS & Carneiro, J (ant edition, preferably the latest).2- **Websites**: Any informative histology website is accepted | | | | | |

**SECOND: PROFESSIONAL INFORMATION**

**COURSE DESCRIPTION**

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| This course is designed to deliver information to first year medical students in which is an introduction to cell from the prospective of structure and role of its organelles.  In addition, structural organization and cellular components of the human body and a full introduction of the cell participation in forming the epithelia and connective tissue is addressed.  As for the systems of the body is concerned, the histological structural organization will be introduced with emphasis on major body system including the muscular-skeletal, cardiovascular, respiratory, digestive, Nervous, and the integument systems. **Students responsibilities:**1- Prepare for the class in advance2- Break down every system into its basic components.3- Use the lectures outline (PowerPoint presentations) and handouts (if any) asa guidelines for your study.4- Study the course components using the required book, atlas and the websites.5- Reconstruct the system so that it is functional and understandable.6- Students are expected to spend 2-3 hours studying for each hour in class.7-By now the students are expected to end up with an understanding of the subject.8-The students’ understanding will be evaluated and given a grade using MCQsand\or any form of evaluation. |

# **Lectures and laboratories schedule:**

# Lectures

# **Sundays 14:00 – 15:00**

# Pre-lab lectures (video sessions)

# **Thursdays 14:00 – 15:00 will be announced before**

# **Laboratories schedule and groups distribution:**

# Group 1 Sunday 8:00 - 11:00

# Group 2 Monday 8:00 - 11:00

# Group 3 Tuesday 8:00 - 11:00

# Group 4 Wednesday 8:00 - 11:00

# Group 5 Thursday 8:00 - 11:00

**COURSE OBJECTIVES**

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| **The course objectives are** **Lecture Synopses** Synopses of lectures are provided to give the basic minimum information for this course. They should be read before the corresponding lecture in order to minimise the amount of note-taking and thereby leave you free to study the images, concentrate on the language used and focus on the key concepts.**Course Objectives:**To have a sound knowledge about the cell and its role in forming basic body tissue structure (Tissue levels of organization).To introduce the roll of the cell in forming organs.To understand and introduce the histology of the body system related structures.**Pre laboratory (lectures) sessions** A one week lecture per semester will be able to cover the main objectives of this course.The second proposed lecture is used, as it is scheduled in the time table, to introduce the pre lab or both anatomy and histology.Students are urged to attend this pre lab sessions as thru are part of the curricula.Pre labs are informative sessions and the content would be videos or PowerPoint presentations and other discussion materials.The coordinator, the laboratory staff, and all the students should attend these sessions. |

**COURSE LEARNING OUTCOMES**

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| **Learning outcomes:**  On satisfying the requirements of this course, students will have the knowledge and skills to:  1. Rcognize the cell structure and the cell participation in forming tissues  2. Identify and describe the major histological structures of the human body.  3. Discuss the structural organisation and functions of each system of the human body.  4. Apply their knowledge of human histology to solve questions regarding function and disease.  5. Analyse and synthesise their knowledge and skills to create effective histology teaching and learning tools. |

**COURSE SYLLABUS**

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| **No**  **of**  **week** | **Title of Lectures** | **Topics to be discussed** | **LAB** |
| 1 | Introduction to Histology. Methods of histological studies  (Histo 1) | Define human histology, define structural levels of organization and related medical terminology  Methods of cell and tissue studies  Light & Electron Microscopes |  |
| 2 | The Cell  (Histo 2) | The histological structure and organelles of the cell  The cell membrane  The cell division |  |
| 3 | Epithelium I  (Histo 3) | Cellular basis of epithelium and its formation  Types of epithelium | The Cell and cell Division |
| 4 | Epithelium II  (Histo 4) | Basement membrane  Epithelium distribution in human body |  |
| 5 | Connective tissue I  (Histo 5) | Define the CT  Cellular components of CT  Classification of CT | Epithelium |
| 6 | Connective Tissue II  (Histo 6) | Bone and Cartilage CT | Connective tissue I |
| 7 | Connective Tissue III  (Histo 7) | Muscles CT  Glandular CT |  |
| 8 | **No lectures** | **Midterm Exam** |  |
| 9 | The Skin &Appendages  (Histo 8) | Layers of the skin  Epidermis cellular components and layers  Dermis CT components and stucture  Structures associated with the skin | Connective tissue II |
| 10 | Circulatory System  (Histo 9) | The histology of the heart  The histology of blood vessels (arteries and veins) | Skin |
| 11 | Respiratory System  (Histo 10) | Histology of upper respiratory tract  Histology of lower respiratory tract |  |
| 12 | Gastrointestinal System  (Histo 11) | Histology of the hollow organs  Histology of the solid organs | CVS  Resp. system |
| 13 | Genitourinary System  (Histo 12) | Female and male histology overview  Overview of Renal histology |  |
| 14 | Nervous Tissue  (Histo 14) | Cellular components of the nervous system  Histology of neuronal cells (types and dferentiation)  Histology of peripheral nervous system and nerves |  |
| 15 |  | Final Theory and Practical Examination  Final Exam will be announced by the registrar office |  |

**COURSE LEARNING RESOURCES**

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| Lectures, Labs, video sessions and seminars. |

**ONLINE RESOURCES**

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| There are some useful websites related to the course and other material that help students to complete the course successfully.  This system is taught by more than one staff.  Each staff is free to give online links to the students as learning resources. |

**ASSESSMANT TOOLS**

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| **) The assessment tools that will be used to test students ability to understand the course material and gain the skills and competencies stated in learning outcomes)**   |  |  | | --- | --- | | **ASSESSMENT TOOLS** | **%** | | Mid Exam (Theory) | 40 | | Practical | 25 | | Final Exam | 35 | | **TOTAL MARKS** | 100 | |

**THIRD: COURSE RULES**

**Department’ s Attitudes**

Ethics, Critical thinking, hard work and discipline**:**

# **Examination attitudes** Any evidence of cheating on a test will result in the student receiving (0 mark) for the test and will be announced through the lectures so all the students will be informed.

# The instructor will be the final authority on whether cheating has occurred.

# Cellular phones and notebooks are band and disruptive and are not allowed during the exam periods because they means an act of cheating, therefore students are advised to enter the exams without them

**Instructional Methods**

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| Lectures - are interactive sessions to deliver and cover the objectives set. Lectures and/or handouts - are not to replace the main source of information source which in this case “The textbook required”.  Video sessions are part of interactive knowledge that are delivered to students as part of the teaching module  Laboratories are supervised and considered a self directed activities in which students are divided into small groups and work together where the main rolls of the students should include: A- Prepare a list of structures that should be identified and learned prior to the laboratory sessions.  B- Identify most of the lectures related structures. C- Encourage students participation in group discussions through the same group members and with other groups within the same session |

**ATTENDANCE RULES**

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| Attendance and participation are extremely important, and the usual University rules will apply. Attendance will be recorded for each class.   * Absence of 10% will result in a first written warning. Absence of 15% of the course will result in a second warning. * Absence of 20% or more will result in forfeiting the course and the student will not be permitted to attend the final examination. Should a student encounter any special circumstances (i.e. medical or personal), he/she is encouraged to discuss this with the instructor and written proof will be required to delete any absences from his/her attendance records.   In laboratory, lab coats are mandatory, no student will be allowed in the lab without a clean lab coat. Students are expected to act in a civil manner and respect the rights and opinions of other students and the instructor. Student/Instructor interaction is a function of the learning experience and should be approached in a manner conducive to the learning process. Use of Mobile Devices, Laptops, etc. During Class, unexpected noises and movement automatically divert and capture people's attention, which means you are affecting everyone’s learning experience if your cell phone, laptop, etc. makes noise or is visually distracting during class. For this reason, students are required to turn off their mobile devices and close their laptops during class. |

**GRADING SYSTEM**

**Example:**

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| |  |  | | --- | --- | | **ASSESSMENT TOOLS** | **%** | | Mid Exam (Theory) | 40 | | Practical | 25 | | Final Exam | 35 | | **TOTAL MARKS** | 100 |   \*Percentages are according to the number of students who passed the exam. |

**REMARKS**

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| The instructor can add any comments and directives such as the attendance policy and topics related to ethics. |

**COURSE COORDINATOR**

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| **Course Coordinator: Prof. Abdulameer Al - Nuaimi - Department of Basic Sciences, Faculty of Medicine, Al-Balqa University Signature:** |