



Course Syllabus - MBBCh

| | | |
|---|------------------------------------|-------------------------------|
| 1. Course Title: Histology Y1 | | Course Code: HISTO1106 |
| 2. Credit/contact hours: | 69 | |
| 3. Number of weeks | 32 | |
| 4. Level/year at which this course is offered: | Year 1 (Semester 1 and Semester 2) | |
| 5. Pre-requisites for this course (if any): Biology AS & A level | | |
| 6. Co-requisites for this course (if any): Physiology, Biochemistry and Anatomy | | |

Course Description

This course is designed to introduce year 1 students to the principles of Histology and enhance their understanding of the structure and function of cell organelles. Different teaching methodologies are employed to familiarize the students with microscopic structure of cells and tissues. It provides the students with the necessary foundational knowledge for pathology.

Course Learning Outcomes

| CLOs | | Aligned-PLOs |
|------|---|--------------|
| | knowledge | |
| k1 | Correlate between the structure of the different organelles and their function. | A2 |
| k2 | Explain the neuronal structure, types of ganglia and functions of neuroglia in relation to their structure. | A2 |
| K3 | Interpret with reference to the structure of types of epithelia their sites of distribution | A3 |
| K4 | Correlate between the signs and symptoms in case of C.T. disorders. | A2 |
| K5 | Correlate between the structure of blood cells and their functions | A2 |
| K6 | Explain the functions of different lymphoid organs based on their structure. | A2 |
| K7 | Correlate between types of cartilage and their sites. | A2 |
| CLOs | | Aligned-PLOs |
| 1 | Skills: | |

| CLOs | | Aligned-PLOs |
|------|---|--------------|
| S1 | Identify the different organelles under the electron microscope | B1 |
| S2 | Demonstrate different ganglia and receptors under the light microscope | B1 |
| S3 | Differentiate between the types of muscles under the microscope. | B1 |
| S4 | Identify under the microscope types of epithelia | B1 |
| S5 | Differentiate between types of Connective tissue under the microscope | B1 |
| S6 | Differentiate between blood cells under the microscope | B1 |
| S7 | Communicate effectively with your peers during preparation and staining of blood film | B3 |
| CLOs | | Aligned-PLOs |
| | Attitude | |
| A1 | Demonstrate ethics, Honesty and integrity while collaborating with your classmates and instructors in classrooms and laboratory | C4 |

Course Delivery Plan

| No | List of Topics | Contact Hours |
|----|---------------------------|---------------|
| 1 | Cytology | 9 |
| 2 | Nervous tissue | 6 |
| 3 | Muscular tissue | 5 |
| 4 | Epithelial tissue | 6 |
| 5 | Connective tissue | 5 |
| 6 | Blood and lymphoid organs | 11 |
| 7 | Cartilage and bone | 5 |
| | Theory Hours | 47 |
| | Practical hours | 22 |
| | Total course | 69 |

Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|------|--|---------------------|--------------------|
| 1 | Identify the structure of the different organelles and correlate | L SP | Essay MCQ, |

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|------|--|---|------------------------------------|
| | between their structure and function and explain the reason for hereditary diseases. | SGD SDL Practical | Oral Practical |
| 2 | Identify the neuronal structure, types, differences between different ganglia. | L SP SGD SDL Practical | Essay MCQ, Oral Practical |
| 3 | Differentiate between the types of muscles | L SP SGD SDL Practical | Essay MCQ, Oral Practical |
| 4 | Identify the microscopic structure of types of epithelia and interpret the relation between the structure and sites of epithelium. | Practical | Practical |
| 5 | Differentiate between types of Connective tissue under the microscope. | Practical | Practical |
| 6 | Correlate between the signs and symptoms in case of C.T. disorders | L SP SGD SDL | Essay MCQ, Oral |
| 6 | Correlate between the structure of blood cells and their functions | L SP SGD SDL PBL Practical | Essay MCQ, Oral Practical |
| 7 | Explain the functions of different lymphoid organs based on their structure. | L SP SGD SDL PBL Practical | |
| 8 | Differentiate between the types of cartilage and their sites. | L SGD | Essay MCQ, |

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|------|--|---------------------|--------------------|
| | Identify the types of bone under the microscopy. | SDL Practical | Oral Practical |

2. Assessment Tasks for Students

| # | Assessment task* | Week Due | Percentage of Total Assessment Score |
|---|--|-------------------------|--------------------------------------|
| 1 | Year assessments (quizzes, student presentation, written assignments, group project, Reflective essay) | Throughout the semester | 30% |
| 2 | Final Exam (Essay, MCQ, Oral, OSPE) | June-July | 70% |

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

Learning Resources and Facilities

1. Learning Resources

| | |
|---------------------------------------|--|
| Required Textbooks | 1- Anthony L. Mescher, (2018). Junqueira's Basic histology text & atlas, 15e. McGraw-Hill Education, New York. 2- Leslie P. Gartner, (2018). Color atlas and text of histology, 7e. Wolters & Kluwer Philadelphia. 3- Victor P. Eroschenko, (2017). Atlas of histology with functional correlations, 13e. Wolters & Kluwer Philadelphia. |
| Essential References Materials | Histology, A Text and Atlas Michael H. et. Al. Williams & Wilkins. |
| Electronic Materials | <ul style="list-style-type: none"> • AMBOSS • Access Medicine |
| Other Learning Materials | Colored Atlas prepared by the department (soft copy), handout, PowerPoint prepared by the department |

2. Facilities Required

| Item | Resources |
|--|------------------------------|
| Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) | Classrooms, Dry Laboratories |

| Item | Resources |
|---|---|
| Technology Resources (AV, data show, Smart Board, software, etc.) | AV, Smart Board, Microscope with camera |
| Other Resources (Specify, e.g. ,if specific laboratory equipment is required, list requirements or attach a list) | Laptop, Library resources |

Instructor:

Prof. Nadia Rouby: nadiah@dmcg.edu