

Course Description Form

1. Educational Institution:
Northern Technical University / Nimrud Technical Institute
2. Academic Department:
Department of Therapeutic Nutrition Techniques
3. Course Title:
Histology
4. Course Code:
TNT112
5. Level / Academic Year:
First / 2025–2026
6. Date of Description Preparation:
21/10/2025
7. Available Attendance Modes:
In-person
8. Total Credit Hours / Units:
75 hours (2 theoretical + 3 practical) × 15 weeks
9. Course Coordinator (All names if multiple):
Name: Mohammed Azeez Mohammed Email: mddazz84@ntu.edu.iq
10. Course Objectives:
• Identify and Classify Fundamental Tissues. • Correlate Structure with Function. • Recognize Tissue Organization in Organs. • Utilize the Microscope Competently.
11. Teaching and Learning Strategies:
• Dialogue and discussion strategy. • Brainstorming. • Self-learning. • Assigning collaborative group work. • Assigning reports.

12.Course Structure:

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5 Hours (2Theory+3 Practical)	1 identify and describe the basic shapes of cells .. 2. Correlate cell shape with its specific function.	Cell Shape	Presentation, explanation, Q& interactive discussion, self-learning.	Oral, written and practical daily assessments and scientific reports.
2	5 Hours (2Theory+3 Practical)	1.Define epithelium and list its general characteristics and functions. 2.Classify the different types of simple epithelium	Epithelial Tissue - Simple Epithelium	Presentation, explanation, Q& interactive discussion, self-learning.	Oral, written and practical daily assessments and scientific reports.
3	5 Hours (2Theory+3 Practical)	1. Classify the different types of stratified epithelium. 2. Distinguish between keratinized and non-keratinized stratified squamous epithelium	Epithelial Tissue - Stratified Epithelium	Presentation, explanation, Q& interactive discussion, self-learning.	Oral, written and practical daily assessments and scientific reports
4	5 Hours (2Theory+3 Practical)	1.Describe the main components of connective tissue 2.Identify the main cell types in loose connective tissue.	Loose Connective Tissue	Presentation, explanation, Q& interactive discussion, self-learning.	Oral, written and practical daily assessments and scientific reports
5	5 Hours (2Theory+3 Practical)	Compare and contrast the structure and function of dense regular, dense irregular, and elastic connective tissue.	Dense Connective Tissue	Presentation, explanation, Q& interactive discussion, self-learning.	Oral, written and practical daily assessments and scientific reports
6	5 Hours (2Theory+3 Practical)	1.Classify the three types of cartilage: hyaline, elastic, and fibrocartilage. 2.Describe the unique properties of the extracellular matrix and the perichondrium for each type.	Cartilage Connective Tissue	Presentation, explanation, Q& interactive discussion, self-learning.	Oral, written and practical daily assessments and scientific reports
7	5 Hours (2Theory+3 Practical)	Describe the microscopic structure of compact bone, including the Haversian system (osteon), lamellae, lacunae, canaliculi, and central canal.	Compact Bone	Presentation, explanation, Q& interactive discussion, self-learning.	Oral, written and practical daily assessments and scientific reports

8	5 Hours (2Theory+3 Practical)	List the formed elements of blood: erythrocytes, leukocytes, and platelets.	Blood Connective Tissue	Presentation, explanation, Q&A, interactive discussion, self-learning.	Written examination
9	5 Hours (2Theory+3 Practical)	Compare and contrast the three types of muscle tissue (skeletal, cardiac, smooth) based on their location, cell structure, nucleus, striations, and mode of control.	Muscular Tissue	Presentation, explanation, Q&A, interactive discussion, self-learning.	Oral, written and practical daily assessments and scientific reports
10	5 Hours (2Theory+3 Practical)	Identify the two main cell types: neurons and neuroglia	Nervous Tissue	Presentation, explanation, Q&A, interactive discussion, self-learning.	Oral, written and practical daily assessments and scientific reports
11	5 Hours (2Theory+3 Practical)	Identify the major histological components of the testis (seminiferous tubules, Leydig cells, stages of spermatogenesis).	Reproductive System	Presentation, explanation, Q&A, interactive discussion, self-learning.	Oral, written and practical daily assessments and scientific reports
12	5 Hours (2Theory+3 Practical)	Identify the four basic layers of the gastrointestinal tract (mucosa, submucosa, muscularis externa, serosa/adventitia) and describe their general structure.	Alimentary Tract and Accessory Glands	Presentation, explanation, Q&A, interactive discussion, self-learning.	Oral, written and practical daily assessments and scientific reports
13	5 Hours (2Theory+3 Practical)	Compare and contrast the structure and function of the three types of arteries: large (elastic), medium (muscular), and small arteries/arterioles.	Circulatory System - Arteries	Presentation, explanation, Q&A, interactive discussion, self-learning.	Written examination
14	5 Hours (2Theory+3 Practical)	Compare and contrast the histological structure of veins with their corresponding arteries.	Circulatory System - Veins	Presentation, explanation, Q&A, interactive discussion, self-learning.	Oral, written and practical daily assessments and scientific reports
15	5 Hours (2Theory+3 Practical)	Demonstrate comprehensive knowledge of all theoretical concepts covered in the course.	Required Learning Outcomes for each one.	Presentation, explanation, Q&A, interactive discussion, self-learning.	Oral, written and practical daily assessments and scientific reports

3. Course Evaluation

Grade distribution out of 100 according to the tasks assigned to the student, such as daily preparation, daily oral tests, monthly or written exams, reports, etc

4. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Junqueira's Basic Histology: Text and Atlas
Electronic References, Websites	

رئيس القسم
د. محمد عزيز محمد



رئيس اللجنة العلمية
د. دينا عبد الزات عبد الحميد