



T-104
2022

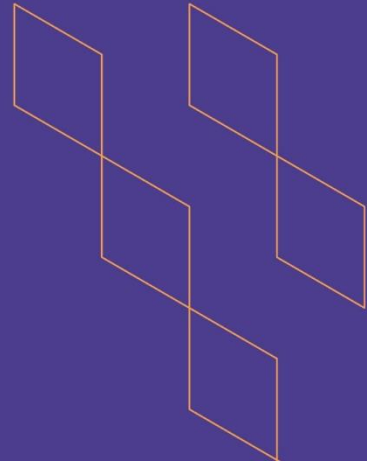
Course Specification





T-104
2022

Course Specification



Course Title: Anatomy and Histology
Course Code: 241 PHL-3
Program: Pharmaceutical Sciences
Department: Pharmacology
College: Pharmacy
Institution: Najran University
Version: Version-1
Last Revision Date: 24/12/2023 G



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A. General information about the course:

Course Identification

1. Credit hours: 3 (2+1)

2. Course type

a. University ☐ College ☒ Department ☐ Track ☐ Others ☐

b. Required ☒ Elective ☐

3. Level/year at which this course is offered:

3rd level/second year

4. Course general Description

This course gives the students an overview of the different body structures and various body systems and the relation of their structure to function and their applied anatomy.

Define parts of the cell, cell membrane, nucleus, cell organelles

Describe basic steps for tissue preparation.

Describe the different human body tissue (epithelium, CT, muscular and nervous)

Analyze the functional relationships of systemic anatomical facts.

Explain the basic pattern of microscopic structures of the body tissues.

Differentiate basic microscopic structures of the four main tissues of the body namely epithelium, connective, nervous, and muscular tissues.

5. Pre-requirements for this course (if any): --

6. Co- requirements for this course (if any): None

7. Course Main Objective(s)

Students after completion this course will be able to:

- Describe the layout of different body structures and various body systems
- Define parts of the cell, cell membrane, nucleus, cell organelles
- Analyze the functional relationships of systemic anatomical facts
- Differentiate basic microscopic structures of the four main tissues of the body
- Identify the problems of applied anatomy as effects of nerve lesions, occluded blood supply, surgical approaches and trauma.
- Demonstrate the various microscopic components of the basic tissues of the body using light microscopy.

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	60	100%
2.	E-learning	-	-
3.	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 	-	-
4.	Distance learning	-	-

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	30
2.	Laboratory/Studio	30
3.	Field	-
4.	Tutorial	-
5.	Others (specify)	-
	Total	60

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Students after completion this course will be able to: Describe the layout of different body structures and various body systems and the relation of their structure to function and their applied anatomy. Define parts of the cell, cell membrane, nucleus, cell organelles Describe basic steps for tissue preparation Describe the different human body tissue (epithelium, CT, muscular and nervous)	K1	Lectures	Theoretical exams
2.0	Skills			
2.1	Analyze the functional relationships of systemic anatomical facts about human body.	S1	Lectures Practical classes	Theoretical exams Practical Exams
2.2	Differentiate basic microscopic structures of the four main tissues of the body namely epithelium,		Lectures Practical classes	Theoretical exams Practical Exams



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	connective, nervous, and muscular tissues.	S1		
...				
3.0	Values, autonomy, and responsibility			
3.1	Work independently, professionally, and communicate clearly by verbal and written means.	V2	Practical Classes	Observation card
3.2	Professional use of computer in preparing reports, assignments and oral presentations and to be skilled in the use of electronic library and internet resources for self-directed learning.	V3	Self-directed learning	Assignments
...				

C. Course Content

No	List of Topics	Contact Hours
	Theory:	
1.	Overview of the course and its different subjects	1
2.	The cell	1
3.	Overview of the different body regions and systems	1
4.	The microscope & histological techniques	1
5.	Terms related to position & movement	1
6.	Skeletal system – Body bones (upper and lower limbs)	1
7.	Compact bone	1
8.	Skeletal system – Body bones (Chest and Pelvis)	1
9.	Cancellous bone	1
10.	General human body muscles	1
11.	Autonomic nervous system	1
12.	Simple Epithelium	1
13.	Cardiovascular system	1
14.	Urinary system	1
15.	Stratified epithelium	1
16.	Gastrointestinal system-1	1
17.	Pseudostratified, and transitional epithelia	1
18.	Gastrointestinal system-2	1
19.	Respiratory system	1





20.	Glandular epithelium	1
21.	Male Genital system	1
22.	Connective tissue proper-1	1
23.	Female Genital system	1
24.	Connective tissue proper-2	1
25.	Fibrous, hyaline and elastic cartilages	1
26.	Types of blood cells and morphology	1
27.	Nervous system-1	1
28.	Muscular tissue	1
29.	Nervous system-2	1
30.	Nervous Tissue	1
Total		30

No	List of Topics	Contact Hours
	Practical:	
1.	Overview of the subject and its different parts ,The histological techniques	2
2.	Overview of the different body regions and systems Using of microscope	2
3.	histological techniques	2
4.	Terms related to position and movement, Simple Epithelium	2
5.	Musculoskeletal system, Stratified epithelium	2
6.	Cardiovascular system, pseudostratified, and transitional epithelia	2
7.	Respiratory system, Glandular epithelium	2
8.	Urinary system, Connective tissue proper-1	2
9.	Connective tissue proper-2	2
10.	Reproductive system, Fibrous, hyaline and elastic cartilages	2
11.	Gastrointestinal system, Compact bones	2
12.	cancellous bone	2
13.	Types of blood cells and morphology	2
14.	Nervous system, Muscular tissue	2
15.	Revision	2
Total		30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz	5 th week	10%
2.	Midterm Exam	7-9 th week	20 %
3.	TBL	7 th week	5%
4.	Practical quiz	Per semester	5%
5.	Student Activity/Assignment/Presentation	14th Week	5%
6.	Students Observation card	Per semester	5%
7.	Final Practical Exam	16 th week	10%



No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
8.	Final Theoretical Exam	17 th week	40%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	<ul style="list-style-type: none"> ❖ Clinical Anatomy for Medical student ❖ Gray's Anatomy for students
Supportive References	<ol style="list-style-type: none"> 1. Young: Wheater's Functional Histology. 6th ed., 2014 2. Junqueira: Basic Histology. 14th ed., 2015
Electronic Materials	<ol style="list-style-type: none"> 1. Saudi digital library 2. www.emedicine.com 3. www.studentconsult.com 4. www.uptodate.com
Other Learning Materials	None.

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	<ol style="list-style-type: none"> 1. Suitable lecture room equipped with data show and internet and sufficient number of seats. 2. Suitable laboratories equipped with health and safety tools, internet, and enough seats. 3. Blackboard collaborative system for e-learning in NU.
Technology equipment (projector, smart board, software)	<ol style="list-style-type: none"> 1. Data show. 2. Computer software listed above. 3. Internet and Wifi- access
Other equipment (depending on the nature of the specialty)	Library supplied with reference textbooks, electronic resources.

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Head of departments and students	Direct Indirect (Questionnaires)
Effectiveness of students assessment	Department Faculty members and department council	Direct Direct
Quality of learning resources	Students Department faculty member	Indirect (Questionnaires) Direct
The extent to which CLOs have been achieved	Students	Questionnaires (Indirect)
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	PHARMACOLOGY DEPARTMENT COUNCIL
REFERENCE NO.	COUNCIL NO. 5, 1445-1446 H
DATE	24/12/2023H

