



# Course Specifications

<b>Course Title:</b>	<b>General and Systemic pathology</b>
<b>Course Code:</b>	<b>373238-2</b>
<b>Program:</b>	<b>Bachelor's in Clinical Laboratory Sciences (Level-7)</b>
<b>Department:</b>	<b>Clinical Laboratory Sciences</b>
<b>College:</b>	<b>Applied Medical Sciences</b>
<b>Institution:</b>	<b>Taif University</b>



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## A. Course Identification

<b>1. Credit hours:</b> 2 hours
<b>2. Course type</b>
a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
<b>3. Level/year at which this course is offered:</b> Level 4/Second Year
<b>4. Pre-requisites for this course (if any):</b> Principles of Anatomy and Histology (373219-3)
<b>5. Co-requisites for this course (if any):</b> None

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

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	2 hours /week= 30 hours/semester	100%
2	Blended	None	0%
3	E-learning	None	0%
4	Correspondence	None	0%
5	Other	None	0%

### 7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
<b>Contact Hours</b>		
1	Lecture	30
2	Laboratory/Studio	None
3	Tutorial	None
4	Others (specify)	None
	<b>Total</b>	<b>30</b>
<b>Other Learning Hours*</b>		
1	Study	45
2	Assignments	8
3	Library	3
4	Projects/Research Essays/Theses	None
5	Others(power point presentation)	4
	<b>Total</b>	<b>60</b>

\*The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

## B. Course Objectives and Learning Outcomes

### 1. Course Description

This course will cover the basic pathological aspects of diseases (etiology, predisposing factors, and pathogenesis. morphologic changes as well as fate and prognosis). The course also aims to cover the main general diseases such as inflammation, neoplasia, cell injuries and; process and types of healing and repair as well as the common system diseases.

### 2. Course Main Objective

The main purpose of this course is to let students gain proper knowledge about general classification of diseases of different systems, understand the pathological basis of diseases in the form of etiology, pathogenesis, gross & microscopic changes, complications and prognosis.

### 3. Course Learning Outcomes

CLOs		Aligned PLOs
<b>1</b>	<b>Knowledge:</b>	
1.1	List etiology, pathogenesis, clinical significances, complication and prognosis of general and systemic diseases.	K1
1.2	State the mechanism of diseases, and their structural and functional disturbances.	K1
1.3	Describe the morphologic changes of the diseases in the form of gross and microscopic pictures.	K1
<b>2</b>	<b>Skills :</b>	
2.1	Explain inflammatory and neoplastic process in terms of the micro anatomical and cellular changes involved.	S2
2.2	Interpret pathological changes of systemic diseases by using appropriate diagnostic methods.	S2
<b>3</b>	<b>Competence:</b>	
3.1	Complete tasks in due time and communicate effectively with colleagues.	C3

## C. Course Content

No	List of Topics	Contact Hours
1	<b>Introduction of pathology:</b> <ul style="list-style-type: none"> <li>- Pathology</li> <li>- Pathogenesis</li> <li>- Etiology</li> <li>- Clinical significance of diseases: Signs &amp; Symptoms</li> <li>- Morphologic changes</li> <li>- Fate of diseases (Complication &amp; Prognosis)</li> </ul>	2
2	<b>Inflammation:</b> <ul style="list-style-type: none"> <li>- Acute inflammation</li> <li>- Chronic inflammation (granulomas)</li> </ul>	2
3	<b>Healing and Repair:</b> <ul style="list-style-type: none"> <li>- Types of healing</li> <li>- Mechanism of healing by fibrosis and Granulation tissue</li> <li>- Types of wound Healing</li> <li>- Complication of wound healing</li> </ul>	2
4	<b>Cell injury (reversible and irreversible):</b> <ul style="list-style-type: none"> <li>- Adaptation</li> <li>- Degeneration</li> <li>- Necrosis and Apoptosis</li> </ul>	3
5	<b>Circulatory Disturbance:</b> <ul style="list-style-type: none"> <li>- Hyperemia, Congestion and ischemia</li> <li>- Thrombosis &amp; Embolism</li> <li>- Hemorrhage &amp; Edema</li> </ul>	3
6	<b>Neoplasia (benign and malignant tumors):</b> <ul style="list-style-type: none"> <li>- Benign tumors</li> <li>- Malignant tumors</li> </ul>	3
7	<b>Diseases of female reproductive system</b>	3
8	<b>Diseases of the breast</b>	3
9	<b>Diseases of urinary tract</b>	3
10	<b>Diseases of gastrointestinal tract</b>	3
11	<b>Diseases of respiratory tract</b>	3
<b>Total</b>		<b>30</b>

## D. Teaching and Assessment

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

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	<b>Knowledge</b>		
1.1	List etiology, pathogenesis, clinical significances, complication and prognosis of general and systemic diseases.	- Lectures.	- Exams
1.2	State the mechanisms of diseases and their structural and functional disturbances	- Lectures.	- Exams
1.3	Describe the morphologic changes of the diseases in the form of gross and microscopic pictures.	- Lectures	- Exams
2.0	<b>Skills</b>		
2.1	Explain inflammatory and neoplastic process in terms of the micro anatomical and cellular changes involved.	- Lectures.	- Exams
2.2	Interpret pathological changes of systemic diseases by using appropriate diagnostic methods.	- Lectures.	- Exams
3.0	<b>Competence</b>		
3.1	Complete tasks in due time and develop effective communication skills with colleagues.	- Group discussion - Lectures	- Exams - Presentations

### 2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Mid-Term Exam	8 <sup>th</sup> Week	30%
2	Activity	Throughout the semester	10%
3	Final Exam	17 <sup>th</sup> /18 <sup>th</sup> Week	60%
	Total		100%

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

## E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

- Course instructors are available for individual consultation in their free time. They are usually full-time permanent members present on-campus from 8:00 am to 2:30 pm on all working days. Appointments can be made in person with the instructor through email etc. Days and time availability of each instructor are posted on their doors. Course instructors provide a range of academic and course management advice including course planning and its progression.
- Each student at the department of Clinical Laboratory Sciences has an academic adviser who is available for individual consultation and guidance. Appointments can be made in person with the instructor through email etc. Days and time availability of each adviser are posted on their doors. The academic adviser can provide support with time management, exam preparation, clarification of subject requirements, feedback on performance and dealing with personal issues as well.

## F. Learning Resources and Facilities

### 1. Learning Resources

<b>Required Textbooks</b>	<ul style="list-style-type: none"> <li>- Pathologic Basis of Disease, 7th edition, 2007, Elsevier. Robbins and Cotran</li> <li>- General and Systemic pathology, 3<sup>rd</sup> edition, 2009, Paul Bass. Claire Way.</li> <li>- General and systematic pathology: a core text with self-assessment / Paul Bass ... [et al.].</li> </ul>
<b>Essential References Materials</b>	None
<b>Electronic Materials</b>	<p>Websites, Search engines (Saudi Digital Library, PubMed, Google Scholar)</p> <ul style="list-style-type: none"> <li>1- E-Learning: Video tapes (audio-visual)</li> <li>2- www.WHO.com</li> </ul>
<b>Other Learning Materials</b>	<p>Journals, Scientific Magazines and Articles.</p> <ul style="list-style-type: none"> <li>▪ Pathology Journal – Elsevier</li> <li>▪ The American Journal of Pathology</li> <li>▪ Pathology Journal Online Journal in Pathology – MDLinx</li> <li>▪ Diagnostic Pathology Journal</li> </ul>

### 2. Facilities Required

Item	Resources
<b>Accommodation</b> (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms
<b>Technology Resources</b> (AV, data show, Smart Board, software, etc.)	Data show, Blackboard and A/V

Item	Resources
<b>Other Resources</b> (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	None

### G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Student's feedback on effectiveness of teaching and quality of courses.	Students	Indirect: Questionnaire Survey at the end of each semester.
Alignment map of course ILOs with that of program ILOs.	Development and accreditation committee	Direct: Student's Performance.
Availability of learning resources, facilities and equipments related to each course.	Students and faculty	Indirect: Questionnaire Survey at the end of each semester.
Evaluation of teaching	Peer evaluators	Direct: Peer evaluation
Standard of student achievement	Examination Committee	Direct: Students grades
Periodical review of course effectiveness and planning for its improvement.	Teaching staff/ Development and accreditation committee	Indirect: Review by Department Committee

**Evaluation areas** (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

**Evaluators** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

**Assessment Methods** (Direct, Indirect)

### H. Specification Approval Data

Council / Committee	Department Council
Reference No.	Meeting No.10
Date	10-9-1440

