Course Specifications

Course Title:	**General Pathology**
Course Code:	**PATH 213**
Program:	**Bachelor of Dentistry [BDS]**
Department:	**Basic Medical Sciences [BMS]**
College:	**College of Dentistry**
Institution:	**Majmaah University**

Table of Contents

A. Course Identification

1. Credit hours: **3** (2+1+0)
2. Course type **a.** University ☐ College ☐ Department **X** Others ☐ **b.** Required **X** Elective ☐
3. Level/year at which this course is offered: 2nd Year / 1st and 2nd Semester
4. Pre-requisites for this course (if any)**: NA**
5. Co-requisites for this course (if any)**:NA**

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**	30	40%
2	**Blended**	NA	NA
3	**E-learning**	NA	NA
4	**Correspondence**	NA	NA
5	**Other - Laboratory**	45	60%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	**Lecture**	**30**
2	**Laboratory/Studio**	**45**
3	**Tutorial**	**-**
4	**Others** (specify)	**-**
	Total	**75**
Other Learning Hours*		
1	**Study**	**45**
2	**Assignments**	**15**
3	**Library**	**15**
4	**Projects/Research Essays/Theses**	**-**
5	**Others** (specify)	**-**
	Total	**75**

***** 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

The course covers the basic principles of disease process in various tissues, organs and systems of the human body. The correlation between the microscopic and clinical features of the disease will be emphasized with importance on the oral manifestations of systemic diseases. Recent advances in the field of molecular, genetic and immunologic basis have improved the understanding of the disease process and this course will be covering all the newer aspects of disease process.

The underlying basic pathological principles are also stressed, in addition to the clinical appearance of the lesions, which is also studied to provide introductory basis for clinical differential diagnosis.

2. Course Main Objective

The purpose of this course is for the students to:

Demonstrate an understanding of basic principles of pathology as it relates to the clinical practice

Discuss the terminology, histopathology, etiology and steps to diagnose wide variety of diseases described in the course

Describe the human defense mechanism, inflammation process and wound healing.

Discuss the role of pathology in the current clinical practice for diagnosis of diseases and advancements in the medical field.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	**Knowledge:**	
K2.1	Identify the sign and symptoms of various diseases and their important characteristic features.	K2
K2.2	Recall the important histological and radiographic features of various diseases of head and neck region.	K2
2	**Skills :**	
S1.7	Analyze findings of various diseases, Correlate interrelations between histologic, radiographic and clinical features and diagnose them.	S1
S2.2	Explain the etiopathogenesis of diseases and correlate them with the clinical sign and symptoms	S2
3	**Competence:**	
C1.7	Demonstrate leadership skills and coordinate with fellow colleagues to submit a group task or assignment	C1

C. Course Content

No	List of Topics	Contact Hours
1	**Introduction** General outline of the course Terminology Branches of pathology	1
2	**Cell injury and Adaptation** Types of cell injury Apoptosis Necrosis	2

	Gangrene Types of cell adaptations Atrophy Hypertrophy Dysplasia Metaplasia	
3	**Inflammation** Types Cellular events Vascular events Cells of inflammation	2
4	**Chronic inflammation** Chronic and Granulomatous inflammation Giant cells Granuloma Tuberculosis Syphilis Leprosy	1
5	**Neoplasia** Introduction Nomenclature Characteristics of tumors Staging and grading Metastasis	3
6	**Nutritional dirorders** General considerations Obesity Protein energy malnutrition Vitamin deficiencies	1
7	**Tissue repair and healing** Regeneration Repair Wound healing by first intention and second intention Healing of fractures	1
8	**Fluid and hemodynamic derangements** Homeostasis Distrubances of body fluids Haemorhage Shock Thrombosis	2
9	**Intracellular accumulations** Fatty change Accumulation of proteins Accumulation of carbohydrates	1
10	**Genetic and pediatric diseases** Chromosomes Mutations Chromosomal anomalies Common groups of pediatrics and their disorders	2
11	**Infection**	1

	Introduction Common bacterial diseases Common viral, fungal diseases Common protozoal diseases	
12	**Diseases of immune system** Overview of immune system Types of immune disorders Types of hypersensitive reactions Diseases of immune compromised patient	2
13	**Diseases of Bone** **Osteoma** Osteoid osteoma Osteosarcoma Ewings sarcoma Marfans syndrome Downs syndrome	1
14	**Hematopoietic and lymphoid disorders** Diseases of RBCs Diseases of WBCs Diseases of Platelets Diseases of Clotting factors Lymphomas	3
15	**Skin** Ectodermal dysplasia Lichen planus Psoriasis Pemphigus Systemic sclerosis	1
16	**Nervous system** Overview Headaches (Migraine) Alzheimer's disease Cerebrovascular accident – stroke Epilepsy Meningitis Poliomyelitis Neuralgias Tumors	2
17	**Lung** **Restrictive** lung disorders Obstructive lung disorders Asthma Bronchieactasis Tuberculosis Lung carcinoma	2
18	**Gastrointestinal tract** GERD Hiatus hernia Peptic ulcer Gastrointestinal syndromes	1
19	**Liver and biliary tract**	1

	Jaundice Liver cirrhosis Gall bladder disorders	
Total		**30**

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	**Knowledge**		
K2.1	Identify the sign and symptoms of various diseases and their important characteristic features.	Lectures, Practical lab	Recall/Factual Questions in Written exams , Oral evaluations, OSPE, Assignments
K2.2	Recall the important histological and radiographic features of various diseases of head and neck region.	Lectures, Practical lab	Recall/Factual Questions in Written exams , Oral evaluations, OSPE, Assignments
2	**Skills :**		
S1.7	Analyze findings of various diseases, Correlate interrelations between histologic, radiographic and clinical features and diagnose them,	Lectures, Practical lab	Conceptual, Analytical or Evaluative questions in Written exams , Oral evaluations, OSPE, Assignments, weekly assessments
S2.2	Explain the etiopathogenesis of diseases and correlate them with the clinical sign and symptoms	Lectures, Practical lab	Conceptual, Analytical or Evaluative questions in Written exams , Oral evaluations, OSPE, Assignments, weekly assessments
3	**Competence:**		
C1.7	Demonstrate leadership skills and coordinate with fellow colleagues to submit a group task or assignment	Students will be divided into small groups and tasks will be assigned to the group	The group task / Assignment will be supervised closely and the work done by each student will be evaluated using rubrics

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quiz 1 + 2	Week 10 & Week 19	05%
2	Midyear exam – Theory	Week 14	25%
3	Behavior / Professionalism	During the course	05%
4	Assignment	During the course	10%
5	Weekly Assessment	During the course	15%
6	Final Practical Exam	Week 14	15%
7	Final Theory Exam	Week 16	25%

***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 :
The student shall avail the consultancy during the displayed office hours

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	✓ Basic pathology for dental students- Harsh Mohan; 4th edition Jaypee books
Essential References Materials	✓ Robbins Basic pathology- Kumar, Abbas, Fausto, Mitchell; 9th edition
Electronic Materials	None
Other Learning Materials	None

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	✓ Lecture room suitable for 30 students ✓ Fully equipped lab for practical sessions
Technology Resources (AV, data show, Smart Board, software, etc.)	✓ Projector ✓ Smart board with all the accessories ✓ Internet

Item	Resources
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	✓ Microscopes ✓ Microscopic slides ✓ Soft tissues specimens and casts of oral anomalies

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	✓ Course Evaluation Survey ✓ Quality of Exam Survey
	Faculty	✓ CLO Mapping with teaching & assessment. ✓ Course Blueprinting ✓ Grade Analysis ✓ Psychometric Analysis
	Peers	Grade Verification
Extent of achievement of course learning outcomes	Faculty member / Quality assurance committee	✓ Direct assessment outcome analysis ✓ Course report preparation
Quality of learning resources, etc	Students / Faculty	✓ Academic advising survey ✓ Student experience survey

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 # 5**
Date	**27/8/1440**