

## Course Overview

### Pathology

Course code :	LMT502
Course title:	Pathology
Level/semester:	<b>Fifth Semester</b>
Preceding Courses & Main Subjects	<b>Biology , -Human Anatomy &amp; Physiology</b>
Credit hours: 3	<b>Theoretical: 2</b>
	<b>Practical: 1</b>

### Course Contents:

UNIT	CONTENTS	HOURS
1	Cell Pathology: Normal cell structure Homeostasis Cell adaptation: Atrophy, Hypertrophy, hyperplasia, metaplasia and dysplasia. Cell Injury: Reversible or Irreversible And Cell death: Apoptosis, Necrosis, Necroptosis, Pyroptosis and autophagy.	6
2	Inflammation: Definition, causes, signs of inflammation Classification and types of Inflammatory reaction Local and general effects of inflammation	6
3	Wounds and fractures: Types of wounds, wound healing, factors affecting wound healing and complication of wound healing	4

	Causes and types of fractures, stages of fracture healing and the complication	
4	Disorders of blood vessels and the circulation: Thrombosis, Embolism, Aneurysms, Atherosclerosis, Ischemia and Infarction	4
5	Neoplasm: Definition, General classification Causes and pathogenesis Local and systemic effect (Metastasis) of neoplasm	4
6	Immunity and Immunological disorders: Definition of Immunity Criteria of Immune response Types of Immune response and hypersensitivity reaction Disorders related to immune response Autoimmunity and autoimmune diseases Transplantation and graft rejection	6
<b>7 LAB</b>	Preparation of tissue slides: Collection of tissues from laboratory animals, fixation, dehydration, clearing, embedding, microtomy and staining	12