

## Course Overview

### Pathology

<b>Course code :</b>	AMT 502
<b>Course title:</b>	Pathology
<b>Level/semester:</b>	Fifth Semester
<b>Preceding Courses &amp; Main Subjects</b>	- Biology
<b>Credit hours: 3</b>	<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 Causes and types of fractures, stages of fracture healing and the complication	4
4	Disorders of blood vessels and the circulation: Thrombosis, Embolism, Aneurysms, Atherosclerosis, Ischemia and Infarction	4

5	<p>Neoplasm:</p> <p>Definition, General classification</p> <p>Causes and pathogenesis</p> <p>Local and systemic effect (Metastasis) of neoplasm</p>	4
6	<p>Immunity and Immunological disorders:</p> <p>Definition of Immunity</p> <p>Criteria of Immune response</p> <p>Types of Immune response and hypersensitivity reaction</p> <p>Disorders related to immune response</p> <p>Autoimmunity and autoimmune diseases</p> <p>Transplantation and graft rejection</p>	6
<b>7 LAB</b>	<p>Preparation of tissue slides:</p> <p>Collection of tissues from laboratory animals, fixation, dehydration, clearing, embedding, microtomy and staining</p>	12