

BSHND 210: GENERAL PATHOLOGY

Course Learning Outcomes:

- To understand the basic terminologies in different pathological states
- To elaborate the cell injuries, necrosis, their types and practical applications of pathology

Content Theory:

1. Introduction

- Scope of pathology and concept of diseases;

2. Definition and terminology:

- Ischemia,
- Hypoxia,
- Necrosis,
- Infarction,
- Atrophy,
- Hypertrophy,
- Hyperplasia,
- Metaplasia,
- Plasia,
- Anaplasia;

3. Response of body to injury and infection

- Growth disturbance,
- Circulatory disturbances,
- Wound healing and repair,
- Neoplasia, fever,
- Disturbance of mineral deposits and pigmentation,
- Anaemia,
- Diarrhoea,
- Burn injury,
- Infectious diseases,
- Hypertension,
- Acute & chronic inflammation,
- Immunity,
- Allergy,
- Hypersensitivity,
- Ulcer (peptic, duodenal),
- Leukemia or blood cancer,
- Environmental and nutritional diseases;

4. Diagnosis and treatment of Cancer in general

- fate, survival and prognosis with tumors.

Content-Practical:

- Selection, collection, preservation and dispatch of morbid material for laboratory examination; Study of pathological slides of various pathological conditions;
- Demonstration of blood sampling;
- Basic concepts of anemia;
- Demonstration of routine urinalysis,
- Faecal examination and skin scraping;
- Blood smears, staining and examination;
- Hematology report interpretation,
- Basic concepts of contents and interpretation of pathology report (serum enzymes and other markers of disease).

Teaching-Learning Strategies:

Teaching will be a combination of class lectures, class discussions, and group work. Short videos/films will be shown on occasion.

Assignments:

The sessional work will be a combination of written assignments, class quizzes, presentation, and class participation/attendance.

Assessments and Examination:

Sessional Work: 25 marks

Midterm Exam: 35 marks

Final Exam: 40 marks

Recommended Readings:

1. Carton, J. (2012). Oxford Handbook of Clinical Pathology. Oxford University Press, New York, U.S.A.
2. Kierszenbaum, A.L. & Tres, L. (2015). Histology and Cell Biology: Introduction to Pathology, (4th ed). Elsevier Saunders, Philadelphia, PA, USA.
3. Kumar, V., Abbas, A.K, Fausto, N. & Aster, J.C (2015). Robbins and Cotran Pathologic Basis of Disease, (9th ed). Saunders Elsevier, USA.
4. McPhee, S.J. & Ganong, W.F. (2014). Pathophysiology of Disease: An Introduction to Clinical Medicine, (7th ed). McGraw-Hill Education, New York, USA.

