

SKILL ENHANCEMENT COURSES

(SEC-3) (5th Semester)

MEDICAL DIAGNOSTICS

(CREDITS 4)

Unit I: Haematological techniques

- 1.1 Enumeration of RBC's
- 1.2 Enumeration of WBC's
- 1.3 Estimation of Haemoglobin
- 1.4 Blood Grouping

Unit II: Histopathology

- 2.1 Processing of tissues
- 2.2 Special stains
- 2.3 Paraffin sectioning
- 2.4 Frozen sectioning

Unit III: Disease diagnosis and prevention

- 3.1 Diagnosis and prevention of diabetes
- 3.2 Diagnosis and prevention of thyroid disorders
- 3.4 Diagnosis and prevention of typhoid
- 3.5 Diagnosis and prevention of flu

Unit IV: Imaging (using photographs)

- 4.1 X-Rays
- 4.2 PET
- 4.3 CT scan
- 4.4 MRI

SUGGESTED READINGS

1. Park, K. (2007). Preventive and Social Medicine, B.B. Publishers
2. Godkar P.B. and Godkar D.P. Textbook of Medical Laboratory Technology, II Edition, Bhalani Publishing House
3. Cheesbrough M., A Laboratory Manual for Rural Tropical Hospitals, A basis for training courses
4. Guyton A.C. and Hall J.E. Textbook of Medical Physiology, Saunders
5. Robbins and Cortan, Pathological Basis of Disease, VIII Edition, Saunders
6. Prakash, G (2012), Lab Manual on Blood Analysis and Medical Diagnostics, S. Chand and Co Ltd