



CLUSTER UNIVERSITY SRINAGAR

SYLLABUS (FYUP UNDER NEP 2020)

Offered By Department of Paramedical Centre

Semester 1st Skill Enhancement Course (SEC)

Course Title: Phlebotomist-I

Course Code: HSS/Q0501 (UGPMD23S102)

Credits: 4 (Theory: 1, Practical: 3)

Contact Hrs: 105 (Theory: 15, Practical: 90)

Max. Marks 100

Theory: 25; Min Marks: 10

Practical: 75, Min. Marks: 30

Objectives:

- ☐ To perform sample collection following best practices
- ☐ To prepare the patient for special procedures.
- ☐ To carry out transfer and storage of samples

Training Outcomes:

After completing this programme, candidates will be able to:

- ☐ Organize pre-procedural requirements of sample collection such as necessary equipment and supplies etc.
- ☐ Perform sample collection following best practices
- ☐ Prepare the patient for special procedures.
- ☐ Instruct the patients in collection of other types of samples such as urine, stool, sputum, etc.
- ☐ Carry out transfer and storage of samples.
- ☐ Prepare for site visits while following visit etiquettes.

Unit I

Introduction to healthcare systems & laboratory services: Basic structure and function of healthcare facilities available at various levels, various types of laboratories in the hospital, diagnostic centres and medical lab facilities at different levels (national, state and district).

Unit II

Roles and responsibilities of a phlebotomist: Phlebotomist's role in the process of quality improvement, role of a phlebotomist in ensuring comfort and safety while drawing blood, ethical behaviour at the workplace, appropriate use of laboratory related medical terminology in daily activities with colleagues, patients and family, importance of conservation of resources in the laboratories.

Unit III

Structure and Function of Human Body: Organisation of body cells, tissues, organs, organ systems, membranes and glands in the human body, cell and various types of tissues; different types of body fluids, secretions and excretions, different parts of the body using charts and models, structure and functioning of human body systems using charts and models.

Unit IV

Basic sensitization to various departments of the medical laboratory: Basics of inorganic and organic chemistry, blood sample collection process in detail, haematology, coagulation mechanism and testing in brief, sampling of sputum, semen, CSF and other body fluids like pleural fluid, pericardial fluid, peritoneal fluid, synovial fluid, ascitic fluid, histopathology, cytology and cytopathology, microbiology (bacteria, virus, fungus and parasites), immunology and serology, instruments and standard operating procedures related to haematology laboratory, biochemistry laboratory, serology laboratory, coagulation, histopathology and cytology section.