

## **Skill Enhancement Courses in Physiology**

**Course Code: PHYHSE101M / PHYGSE301M / PHYGSE401M / PHYGSE501M / PHYGSE601M  
(Credits: 3)**

### **SEC 1 - Hematological techniques**

Preparation of blood smear and identification of blood cells. Preparation of haemin crystal. Bleeding time, clotting time. Measurement of hemoglobin in blood. Preparation of serum, Blood group determination. Identification of megakaryocyte from bone marrow.

**Course Code: PHYHSE202M / PHYGSE302M / PHYGSE402M / PHYGSE502M / PHYGSE602M  
(Credits: 3)**

### **SEC 2- Biomedical Instrumentation**

Basic principles and analysis by using the following instruments: pH- meter, Colorimeter, Centrifuge, Microtome, UV-vis – Spectrophotometer, ECG, EMG, EEG, Pulmonary function analyzer, CT Scan, MRI, Ultrasonography (USG), Endoscopy.

**Course Code: PHYHSE303M (Credits: 3)**

### **SEC 3 - Application of Computer in Physiology**

Physiological Data sorting & analysis using spreadsheet, Physiological data presentation using Power point, Use of Protein Data Bank, Drug Bank & Gene Bank for data visualization and characterization, Physiological image data editing, Retrieving and documentation of a topic using PubMed and uses of ethics in preparation of documentation- use of Plagiarism Checker.