Basic Cardiac Evaluation and Therapies BVOCCT-502

**Unit I**

**Electrocardiography**

a) Optimum recording of 12 leads ECG and computerised interpretation

b) Trouble shooting of ECG artefacts

c) Bradyarrhythmais and tachyarrhythmias.

**Stress test (tread mill, bicycle and others)**

a) Indications/ contra indications

b) Complications

**Unit II**

**Echocardiography**

a) Evaluation of left ventricular studies - 16 segment model

b) Evaluation of left ventricular studies - systolic and diastolic functions

c) Evaluation of right ventricle

**Unit III**

**Invasive techniques**

a) Guide wires

b) Diagnostic catheters for coronary angiography

c) Diagnostic catheters for carotid, /cerebral angiography

d) Diagnostic catheters for renal angiography

e) Diagnostic catheters for abdominal vessels

**Unit IV**

**Invasive techniques Procedures**

a) Carotid and cerebral angiography

b) Renal angiography

c) Studies of abdominal aorta, mesenteric, iliac and others

**Unit V**

**Care of patient undergoing vascular procedures**

a) Indications, contraindications for angiographic studies

b) Patient education of the invasive procedures, consent processes and preparation

c) Monitoring physiological variables during cath lab procedures

d) Post procedure protocols e) Reporting and data management of the cath procedures

**Practicals/ Students Presentations –**

a) Right sided ECG chest leads and its importance

b) Demonstration of TAPSE.

c) Demonstration of estimation of pulmonary artery pressure by echocardiography

d) Spotters on guide wires and diagnostic catheters

**Recommended Books Recent Editions.**

1. A Text book of Electrocardiography - Goldberger

2. Nanda's A Text book of Echocardiography

3. A Text of Cardiac Catheterization & Interventions. Dr. W. Grossman's D. Baim

4. A Text book of Cardiovascular medicine. Dr. Bruanwald's

5. A Text book of Medicine. Davidsons