

**POST GRADUATE DIPLOMA IN
EXTRACORPOREAL TECHNOLOGY
(CARDIO THORACIC PERFUSIONIST COURSE)**

SYLLABUS FOR PART 1

PAPER - 1

1. Anatomy of Heart Lung Blood Vessel
2. Heart as Pump & Cardiac cycle
3. Heart blocks and Pacemaker
4. Blood, its components and haemostatic
5. Respiration, Gas Exchange & Diffusion
6. Conduction system of the Heart
7. E.C.G. and Defibrillation
8. Excretory function and Acid Base Balance

PAPER - 2

1. Pharmacology of commonly used medicines e.g. Inotropes, antiarrhythmics
2. Rheumatic heart disease pathology and surgery
3. Ischemic Heart Disease - (Pathology and Surgical Management)
4. Acyanotic Congenital Heart Disease - (Pathology and Surgery)
5. Cyanotic Congenital Heart Disease - (Pathology and Surgery)
6. Method of Sterilization - Definitions, Types, Methods, Central Sterilization
7. Asepsis and Theatre techniques

सह-चिकित्सा डिग्री/डिप्लोमा कोर्स सत्र 2015-16 से म.प्र. आयुर्विज्ञान विश्वविद्यालय जबलपुर से शासकीय/अशासकीय महाविद्यालयों के समस्त कार्य का संपादन संबंधित विश्वविद्यालय द्वारा ही किया जाएगा।

सह-चिकित्सा

Sparks
Assoc. Registrar (Acad)
Barkas College University
PROF. A. L. W. & L. S.

POST GRADUATE DIPLOMA IN
EXTRACORPOREAL TECHNOLOGY
(CARDIO THORACIC PERFUSIONIST COURSE)

SYLLABUS FOR PART 2

PAPER - 1

1. Types of Oxygenators and some common Oxygenators
2. Heat Exchangers, Filters and Reservoirs
3. Aortic and Arterial Cannulae
4. Venous Cannulae and techniques
5. Pumps
(Roller Pumps, Centrifugal Pumps, I.A.B.P., Infusion Pumps)

PAPER - 2

1. Priming fluids, P.C.V.
2. Technique of Cardiopulmonary Bypass
3. Cardioplegia, additives & techniques
4. Hypothermia, Circulatory arrest and Homeostatic Management
5. Body response of extracorporeal circulation and complication C.P.B.
6. Ultra filtration during Cardiopulmonary Bypass
7. Emergency during Cardiopulmonary Bypass
8. Perfusion Technology for Minimally Invasive Cardiac Surgery
9. Surgery for Aortic Aneurysm.

सह-चिकित्सा डिग्री/डिप्लोमा कोर्स सत्र 2015-16 से म.प्र. आयुर्विज्ञान विश्वविद्यालय जबलपुर से शासकीय/अशासकीय महाविद्यालयों के समस्त कार्य का संपादन संबंधित विश्वविद्यालय द्वारा ही किया जाएगा।

सुभाषिणी

Asstt. Registrar (Acad)
Barkatullah University
BHOPAL, M.P.