

DIPLOMA IN SCOPE SUPPORT TECHNOLOGY II YEAR SYLLABUS

APPLIED ANATOMY

Gastrointestinal tract

- Upper gastrointestinal tract
- Lower gastrointestinal tract
- Small bowel
- Hepatobiliary pancreatic
- Peritoneal cavity

Orthopaedics

- Anatomy of joints

Cardiothoracic

- Anatomy of tracheobronchial tree

ENT

- Oral cavity
- Nasal cavity & sinuses
- Base of skull

Gynaecology

- Female reproductive organs
- Pelvic anatomy

Urology

- Anatomy of male & female urogenital system

Related Anatomy

- Anatomy of cardiovascular system
- Anatomy of respiratory system

PHYSIOLOGY

Gastrointestinal tract

- Gastrointestinal secretions
- Digestive physiology & Absorption
- Physiology of biliary secretion
- Peritoneal fluid & chyle

Orthopaedics

- Joint mechanics
- Synovial fluid

Cardiothoracic

- Lung mechanics
- Respiratory movements
- Gas exchange
- Bronchial lavage

ENT

- Physiology of upper airway & stridor
- Management of tracheostomy tubes

Gynaecology

- Reproductive physiology

Urology

- Glomerular filtration
- Tubular exchange
- Urine osmololity
- Obstructive uropathy

Anaesthesiology

- Basics in Mechanical Ventilation
- Endotracheal intubation
- Intravenous access/NG tube insertion
- Documentation of vital parameters

PATHOLOGY

- Benign & malignant diseases of gastrointestinal system
- Pathological aspects of joint disorders
- Diseases of oral cavity & sinuses
- Diseases of female reproductive organs
- Diseases of genitourinary system
- Diseases of Cardiothoracic system

MICROBIOLOGY

- Clinical microbiology
- Infection control
- Sterilization techniques
- Disposal of infected wastes
- Universal precautions
- Specific infections
 - Hepatitis A
 - Hepatitis B
 - Hepatitis C
 - HIV-AIDS
 - Tuberculosis
 - Nosocomial infections

PHARMACOLOGY

- Drugs used in Anaesthesiology
- Antibiotics
- Prokinetics
- Antacids
- Life saving drugs
- Bowel preparation

BIOCHEMISTRY

- Basic biochemical investigations
- Liver Function Tests
- Renal Function Tests
- Coagulation profile

PATHOPHYSIOLOGY

Haemodynamic changes during pneumoperitoneum
Pathophysiology of pneumoperitoneum
Complications of pneumoperitoneum
Complications of endoscopy
Complications of ERCP
Complications of Arthroscopy
Complications of Sinuscopy
Complications of Hysteroscopy/colposcopy
Preoperative check for scopes
Intraoperative Monitoring
Postoperative care
Cardiopulmonary resuscitation

INSTRUMENTS

Components & assembly of scopes
Mechanics of scopy
Cleaning & maintenance

SPECIALITY TRAINING

DEPARTMENT	DURATION
Medical gastroenterology	2 months
Surgical gastroenterology	2 months
Orthopaedics	1 month
Anaesthesiology	1 month
Urology	1 month
Gynaecology	1 month
Thoracic Medicine	15 days
Cardiothoracic surgery	15 days
Neurosurgery	15 days
ENT	15 days

Diploma Course in Allied Health Sciences

EXAMINATION PATTERN – II YEAR

Diploma Course in Scope Support Technology

Sl. No.	Subject Title	I A		University Exam		Practical		Viva Voce	
		Max	Min	Max	Min	Max	Min		
1.	Paper I – Scopes Cleaning Maintenance	50	25	100	50	50	25	-	-
2.	Paper II- Sterilization Techniques including Microbiology	50	25	100	50	50	25	-	-
3.	Paper III – Complication of Scopy – Patient Preparations	50	25	100	50	50	25	-	-

Practicals
Paper I - Scope – different types – part of the scope Trouble shooting
Paper II – Sterilization Equipment - Infections control – universal precaution - spotters.
Paper III – Preparation for Procedure –setting up a tray – Patient Education