

Syllabus of Anatomy

Diploma in Surgical Endoscopic Technique

Paper I (Anatomy) Part – A

S.No.	Topics	Classes
1	Introduction of subject, Terminology & Various Planes	01
2	Head & Neck	02
3	Thorax including, Oesophagus, bronchial tree, Heart	04
4	Abdomen, including GIT, Hepatobiliary system	06
5	Urogenital System	02
6	Upper & Lower limb (General)	02

1st year Diploma in Surgical Endoscopic Technique course

Paper – I Anatomy

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B. Physiology

- 15 Classes

1. Introduction of the subject & general considerations	1 Classes
2. Gastro – intestinal Tract (GIT)	2 Classes
3. Cardiovascular System (CVS)	3 Classes
4. Respiratory System (RS)	2 Classes
5. Hematology Including Anemia	2 Classes
6. Nervous System (CNS & PNS)	2 Classes
7. Endocrine glands (Thyroid Pituitary Pancreas etc.)	2 Classes
8. Genitourinary System (GUS)	2 Classes

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B. General Nursing

1	Clearing, dusting, bed making and operation table setting in O.T. dress.
2	Preoperative care and transfer of conscious/unconscious/Blind/restless patient (both Children & adults) to operation table.
3	Ryle's tube insertion and urinary catheterization.
4	Pulling out of the dress of patient (male/female/child) to expose the site operation before/during general as well as regional anesthesia (Conscious patient)
5	Making various desired postures of the patient for a particular operation and care of head hairs, eyes, Nose, pinna, breast and genitalia operation.
6	Opening of sterile wrapped packing, care of sterilized instrument and trolley setting.
7	Hand washing & wearing sterilized gown and gloves
8	Per-operative skin scrubbing of operable site and patient draping.
9	Moral & Ethical duties o O.T. Technician towards patient/fellows/doctors.
10	Postoperative dressing and bandaging wound care and care of the drains.
11	Transfer of operated patient with due care and cover from operation table.
12	Vital signs specially respiration, pulse, blood pressure cyanosis shock hemorrhage.
13	Postanaesthesia/Postoperative nursing care including care for vomiting, patient airway & post oxygenation.
14	Legal responsibilities of O.T. Technicians for patient care specially in the light of consumer protection Act (CPA).

PAPER – IV (Endoscope and endoscopic techniques 15 classes

1	Endoscopy room layout
2	Pre endoscopy preparation
3	Pre-medication (Anaesthesia)
4	Endoscopic equipment
5	Endoscopic Radiology (Fluoroscopy/ER)
6	Sterilization Techniques
7	Use and handling of endoscopes
8	Pulse oximetry and other monitoring devices
9	Post endoscopy care/post op. monitoring
10	Use of computers during endoscopy
11	Record keeping and follow up of patients
12	Complications during endoscopic procedures
13	Contra indication to endoscopy

New
2nd year Diploma in Surgical Endoscopic Technique course session

D: Administration including Endoscopy

–	<u>10 Classes</u>
1. Indications for ERCP	1 Classes
2. Equipments used for ERCP	1 Classes
3. Anaesthesia for ERCP	2 Classes
4. Pre-ERCP Preparation of the Patients	1 Classes
5. Monitoring of the Patient during ERCP	1 Classes
6. Complications of ERCP	1 Classes

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PAPER – IV B

10 classes

S.No.	Topic	Classes
1	I.V. fluids/Blood transfusion	1 Classes
2	Operation Theatre Layout	1 Classes
3	Pre-operative preparation for surgery	1 Classes
4	Laparoscopic surgery equipment	3 Classes
5	Laparoscopic surgery procedures	1 Classes
6	Sterilization of Laparoscopic equipment	1 Classes
7	Post-operative care after surgery	1 Classes
8	Use of Bronchoscope pre & Post Bronchoscopy care	1 Classes

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PAPER – IV (Endoscope and endoscopic

10 Classes

S.No.	Topic	Classes
1	Pre endoscopy preparation	1
2	Pre-medication (Anaesthesia)	2
3	Endoscopic equipment	2
4	Upper G.I Endoscopy	2
5	Lever G.I. Endoscopy	1
6	Post endoscopy care/post op. monitoring	2
7	Record keeping and follow up of patients	1
8	Complications during endoscopic procedures	1
9	Contra indication to endoscopy	1

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C: Administration including Endoscopy Room Management.

Principle of Endoscopy (Paper III)

10 Classes

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| 1. History of Endoscopy | 1 Classes |
| 2. Evolution of Endoscopy | 1 Classes |
| 3. Physics and Principle of fibro optic and other endoscopes | 2 Classes |
| 4. Radiation and exposure protection | 1 Classes |
| 5. General Principles of ERCP & Choledochoscopy | 1 Classes |
| 6. Computer application in Endoscopy | 1 Classes |
| 7. General endoscopy room administration. | 1 Classes |
| 8. Sterilization of & layout endoscopy | 1 Classes |

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Paper-III A- Medicine

10 Classes

S.No.	Topics	Classes
1	History taking in brief, physical examination (Pluses, blood pressure, palor, cyanosis etc.) skin infection oedema	01
2	Hypertension, valvular heart diseases congestive Heart failure	03
3	Pulmonary Tuberculosis, Tuberculosis specially that of intestine and bone Chronic obstructive pulmonary diseases	02
4	Diabetes Mellitus	01
5	Typhoid fever	01
6	Hepatitis	01
7	HIV & AIDS	01

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Paper-III B-SURGERY

10 Classes

S.No.	Topics	Classes
1	E.N.T. Surgery (Oral Cavity and Larynx)	01
2	Various diseases of Oesophagus	01
3	Diseases of the stomach and duodenum	01
4	Diseases of Small Intestine	01
5	Diseases of Anorectum and Colon	02
6	Hepatobiliary Surgery	01
7	Urogenital including obstetrical & gynecological Surgeries	02
8	Orthopedics Surgery Cervical spine Diseases	01

Paper II (Microbiology and General Nursing).A- Microbiology

1	Introduction of the subject, History & Scope of Microbiology various terminology	2 Classes
2.	Distribution of Microorganisms and their classification: Algae, Fungi, Mould Protozoa, Bacteria, Virus, Rickettsia, Mycoplasma, Soprores etc.etc.	2 Classes
3	Bacteriology: characteristics of bacteria & their classification, study of common pathogens, control of bacteria.	2 Classes
4	Infection & sepsis: Route and mode of transfer of microbes from any persons patients/linen/Specimen to other person. Control of infection and antimicrobials.	2 Classes
5	Immunity & its Classification: Immunity & resistance of persons& Microbes: Prophylaxis & management of decreased immunity.	2 Classes
6	Principles of collection, Handling, Preservation and Transport of Various sterile/ infected/CSF, Stool, Sputum, any normal/abnormal tissue/organ/stone for pathological examination or culture.	2 Classes
7	Sterilization, Disinfections. Antisepsis. Asepsis, fumigation, common disinfectants & antiseptics – their classification, uses & harms.	2 Classes
8	Short term/Long term hazards of working inside operation theatre complex and their prophylaxis.	2 Classes