

Curriculum
for
Practical :- First Year
Diploma in Operation Theatre Technician

Practical	Topics
	1. Hand wash & scrubbing.
	2. Basics of various methods of sterilization.
	3. Care & identification of all equipments, instruments & hand instruments related to OT.
	4. Pre-operative care & preparation.
	5. Post-operative care of patient.
	6. BLS.
	7. Using medical gases.
	8. Working as second assistant.
	9. Details about sutures, needles, knots.
	10. IV fluids use.
	11. Recording vitals.
	12. IV, IM injection, Urinary catheterization.
	13. Glove, Gown, Personal protection equipments.

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Details of Curriculum for Second Year
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PAPER 1st	Topics	Hours.
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Theory		
1.Only relevant surgical & medical conditions (relevant to OT technician).	1. History taking. General examination of the patient. Filling Case-sheet. Common clinical words.	15 Hrs
	2. Hypertension:- Def, Causes, Pathology, Clinical features, Investigation & Management.	05 Hrs
	3. Hypotension :- Def, Causes, Pathology, Clinical features, Investigation & Management.	02 Hrs
	4. Diabetes mellitus :- Def, Causes, Pathology, Clinical features, Investigation & Management.	10 Hrs
	5. <u>Diseases of blood</u> :- Anaemia, Basics of coagulation Bleeding disorders & Haemophilia.	20 Hrs
	6. <u>Respiratory Tract</u> :- Pneumonia, Tuberculosis, B. asthma, COPD, Bronchiectasis, Collapse of lung, Pneumonitis, Pleural effusion, Pneumothorax, Empyema thoracis, Cancer lung.	30 Hrs
	7. <u>Diseases of GIT & Liver & GB</u> :-Reflux Oesophagitis, Peptic ulcers, Gastritis, Intestinal Obstruction, Hepatitis, Cirrhosis of liver, Cholecystitis, appendicitis, Hernia, Piles, Fissure, Fistula, Pancreatitis, Pancreatic Cancer.	60 Hrs
	8. <u>Diseases of Nervous system</u> :- Stroke, Meningo-encephalitis, Glasgow coma scale, Epilepsy, Head Injury.	30 Hrs
	9. <u>Diseases of Urinary tract</u> :- Urolithiasis, Benign prostatic hyperplasia, Hydrocoele, Cancer prostate, urethral stricture, Hypo & epi-spadias.	40 Hrs
	10. <u>Endocrine system</u> :- Diabetes mellitus, hypo & Hyper thyroidism.	10 Hrs
	11. <u>Miscellaneous</u> :- Hypo & Hyper Natraemia, Hypo & Hyper Kalaemia, Hypo & Hyper Calcaemia.	10 Hrs
	12. <u>Infections diseases</u> :- TB, Typhoid, Malaria, Dengue fever, Leprosy, AIDS, Amoebiasis.	30 Hrs

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PAPER 1st Theory	Topics	Hours.
1.Only relevant surgical & medical conditions (relevant to OT technician).	13. Head injury & Intracranial bleed.	20 Hrs
	14. D's of G& O: Caesarian section, fibroid uterus, Cancer uterus, prolapse uterus, PID.	20 Hrs
	15. Basics about fracture & management.	50 Hrs
	16. PIVD,Potts spine.	10 Hrs
	17. Oral cavity tumors.	10 Hrs
	18. Eye d's : Cataract, Glaucoma.	10 Hrs
	19. ENT:. CSOM, ASOM, Laryngeal tumor, Nasal poyp, DNS.	20 Hrs
	20. <u>Paediatric surgery:-</u> Diaphragmatic Hernia, Meningo-Myelocoele & Spina bifida, Cystic hygroma, Basic of Congenital Heart d's, Hirschsprung d's, Ano-rectal maformation.	40 Hrs

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PAPER 1st	Topics	Hours.
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Theory		
2.Nursing Procedures like vital recording, IM/IV/SC injection, Oxygen therapy, Nebulization, IV infusion	1. Temperature monitoring & Fever.	02 Hrs
	2. Pulse monitoring.	01 Hr
	3. BP monitoring.	01 Hr
	4. Respiration monitoring.	01 Hr
	5. Types of Injection routes.	01 Hr
	6. IM Injection.	01 Hr
	7. IV Injection.	01Hr
	8. SC Injection.	01 Hr
	9. Oxygen Therapy.	03 Hrs
	10. Nebulization	01 Hr
	11. IV Infusion (Also with infusion pump).	01 Hr
	12. Care of Unconscious patient.	02 Hrs
	13. Urinary Catheterization.	03 Hrs

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PAPER 2nd Theory	Topics	Hours.
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1.Details of common surgeries & applied OT techniques.	1. Various Incisions and Suturings.	10 Hrs
	2. Use of Cautery machine.	05 Hrs
	3. Incision & drainage.	05 Hrs
	4. Mastectomy & MRM.	05 Hrs
	5. Open reduction & internal fixation.	15 Hrs
	6. Laboratory.	10 Hrs
	7. Craniotomy.	05 Hrs
	8. EDH, SDH & Intra parenchymal bleed drainage.	05 Hrs
	9. Cholecystectomy : Open & Laparoscopic.	10 Hrs
	10. Appendectomy: Open & Laparoscopic.	10 Hrs
	11. Hernioplasty & Herniotomy.	10 Hrs
	12. Haemorrhoidectomy : Conventional & stapler.	10 Hrs
	13. Lower segment caesarian section.	10 Hrs
	14. Hysterectomy : Abdominal, Vaginal & laparoscopic.	10 Hrs
	15. Surgery for fistula in ano.	05 Hrs
	16. Surgery for Rectal prolapse.	05 Hrs
	17. Surgery for Intestinal perforation.	10 Hrs
	18. Surgery for Gastric perforation.	05 Hrs
	19. ureteroscopic removal of urinary stone.	05 Hrs
	20. TURP.	05 Hrs
	21. Surgery for Cataract.	05 Hrs

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PAPER 2nd Theory	Topics	Hours.
1.Details of common surgeries &	22. Surgery for Glaucoma.	05 Hrs
	23. Surgery for DNS.	05 Hrs

applied OT techniques.		
	24. Thyroid surgery.	05 Hrs
	25. Thoracotomy.	10 Hrs

PAPER 2nd Theory	Topics	Hours.
2.Basics of CSSD & sterilization practices, biomedical waste management.	1. Various methods of Sterilization.	20 Hrs
	2. Aseptic practices.	20 Hrs
	3. Basics of Biomedical waste management.	20 Hrs

PAPER 2nd Theory	Topics	Hours.
3.Basic biomedical engineering physics of OT equipments & instrument.	1. Boyle's apparatus.	05 Hrs
	2. Anaesthesia work station.	20 Hrs
	3. Cautery machine.	10 Hrs
	4. Surgical endoscopes & Laparoscopes.	15 Hrs
	5. Monitors	05 Hrs
	6. C- Arm.	05 Hrs

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Curriculum
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Practical	Topics
	1. Hand on training as first assistant in common surgeries as listed in paper second.
	2. Hand on training of maintaining Asepsis in OT.
	3. Hand on training of biomedical waste management.
	4. Hand on training on taking various consents & keeping records.